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## *Appendices*

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Appendix A – Wind roses

Appendix B – Historical Groundwater monitoring data

Appendix C – BIOSCREEN and BIOCHLOR Model Parameters

Appendix D – SAP and QAPP



## **Appendix A**

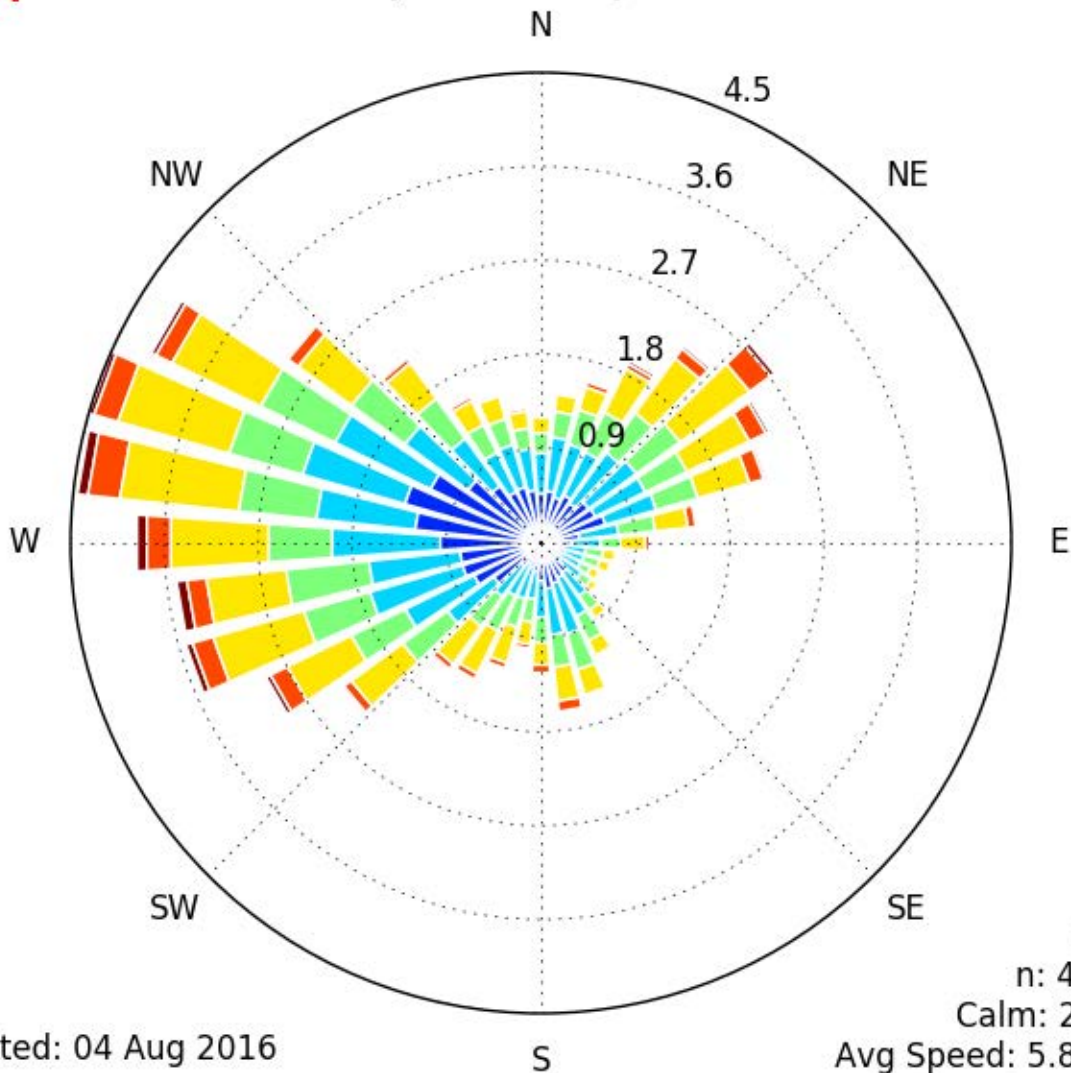
### **Wind Roses**



[BQK] BRUNSWICK/GLYNCO

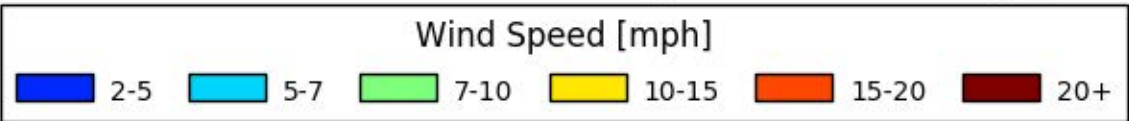
Windrose Plot [Time Domain: Jan,]

Period of Record: 01 Jan 1973 - 31 Jan 2016



Stats  
n: 43454  
Calm: 28.4%  
Avg Speed: 5.8 mph

Generated: 04 Aug 2016

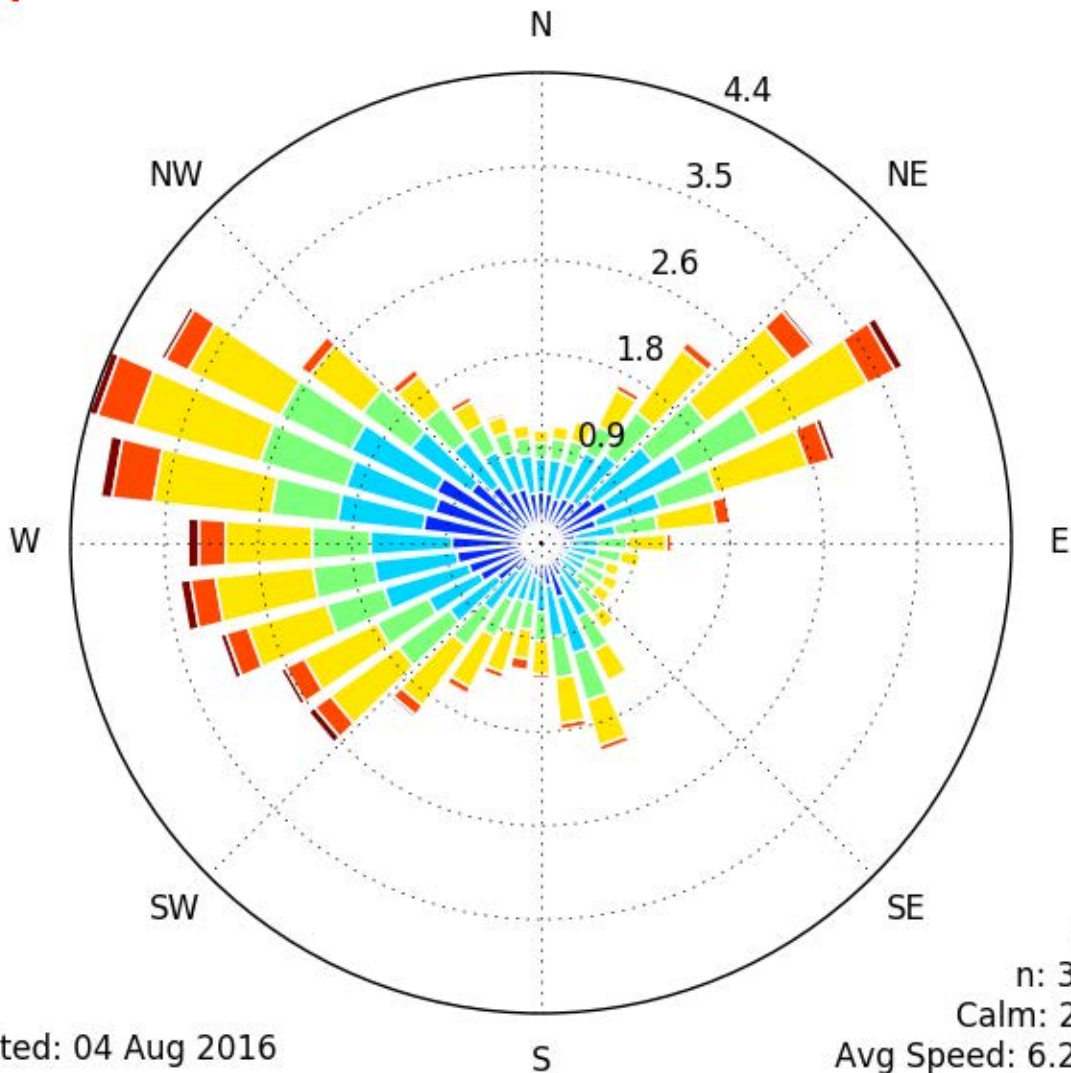




[BQK] BRUNSWICK/GLYNCO

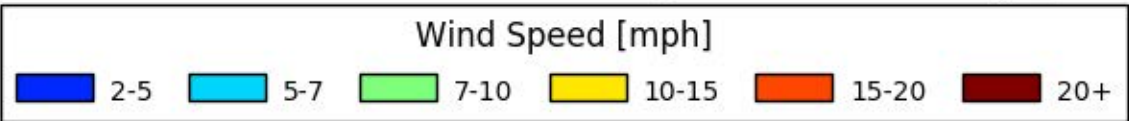
Windrose Plot [Time Domain: Feb,]

Period of Record: 01 Feb 1973 - 29 Feb 2016



Stats  
n: 39439  
Calm: 26.6%  
Avg Speed: 6.2 mph

Generated: 04 Aug 2016

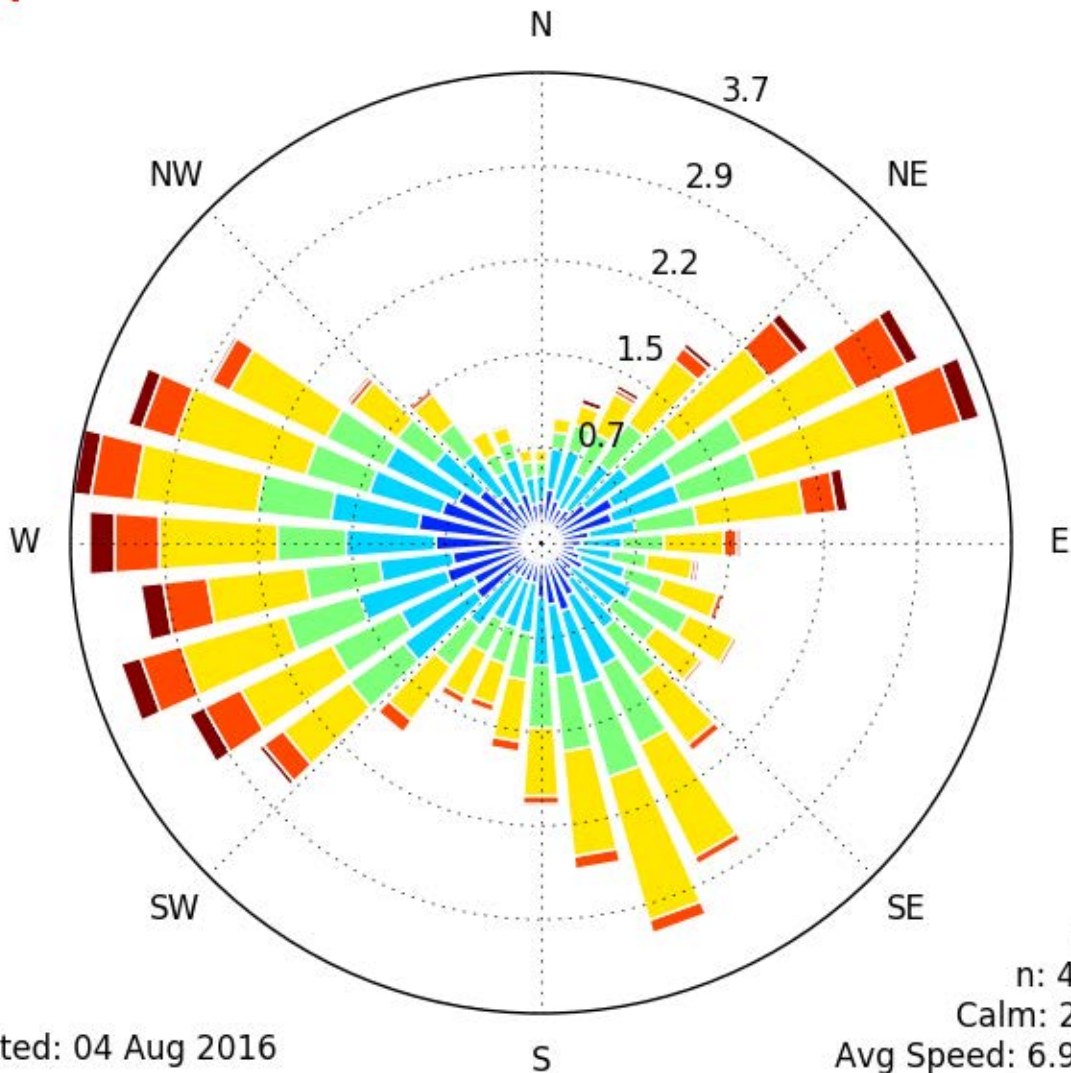




[BQK] BRUNSWICK/GLYNCO

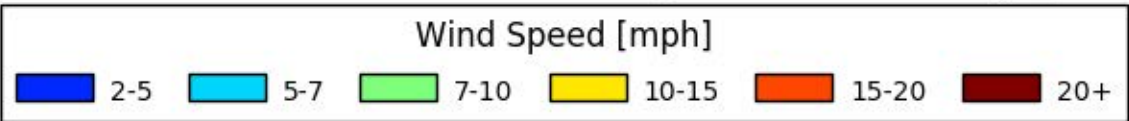
Windrose Plot [Time Domain: Mar,]

Period of Record: 01 Mar 1973 - 31 Mar 2016



Stats  
n: 42069  
Calm: 23.3%  
Avg Speed: 6.9 mph

Generated: 04 Aug 2016

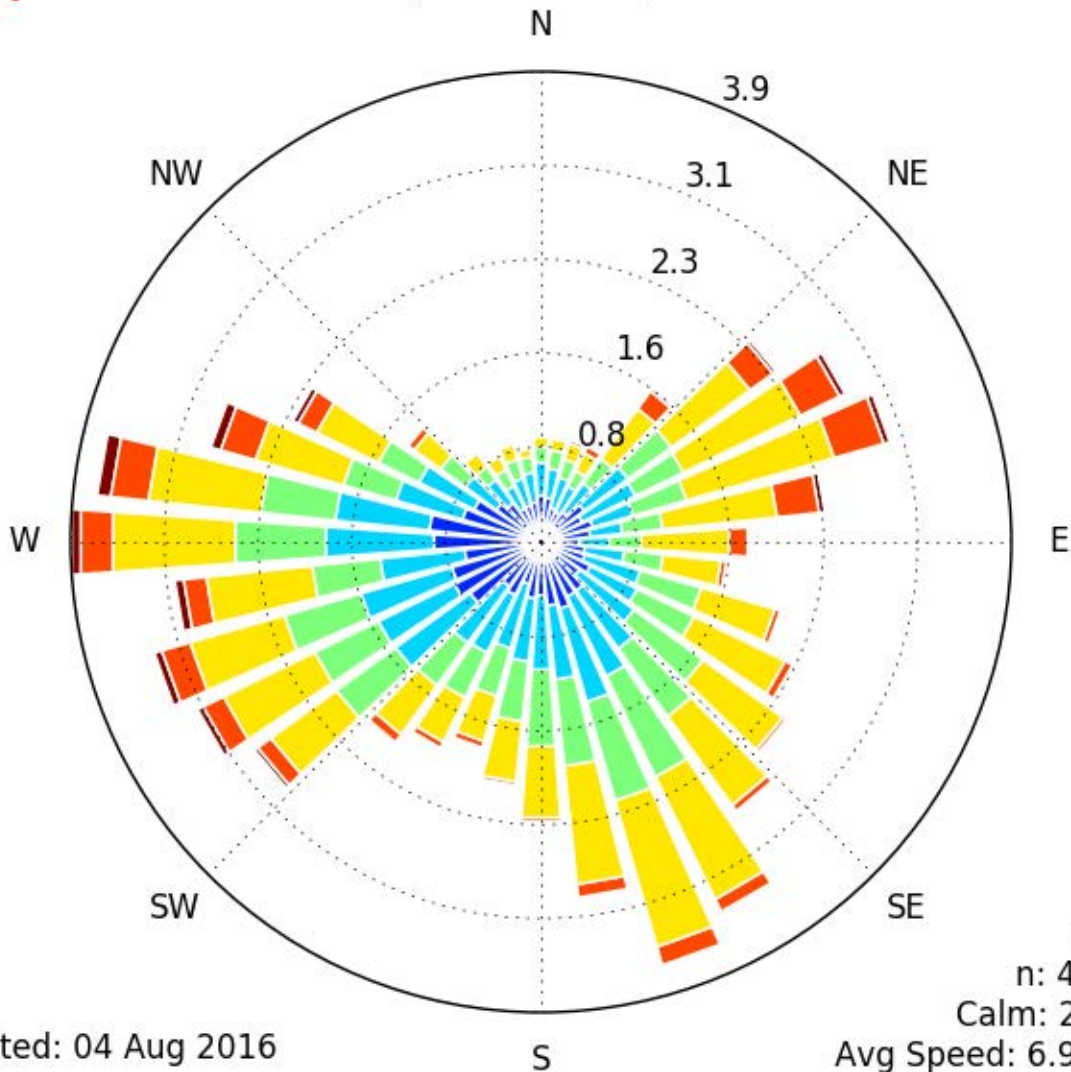




[BQK] BRUNSWICK/GLYNCO

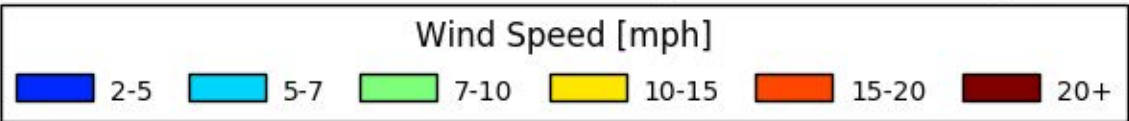
Windrose Plot [Time Domain: Apr,]

Period of Record: 01 Apr 1973 - 30 Apr 2016



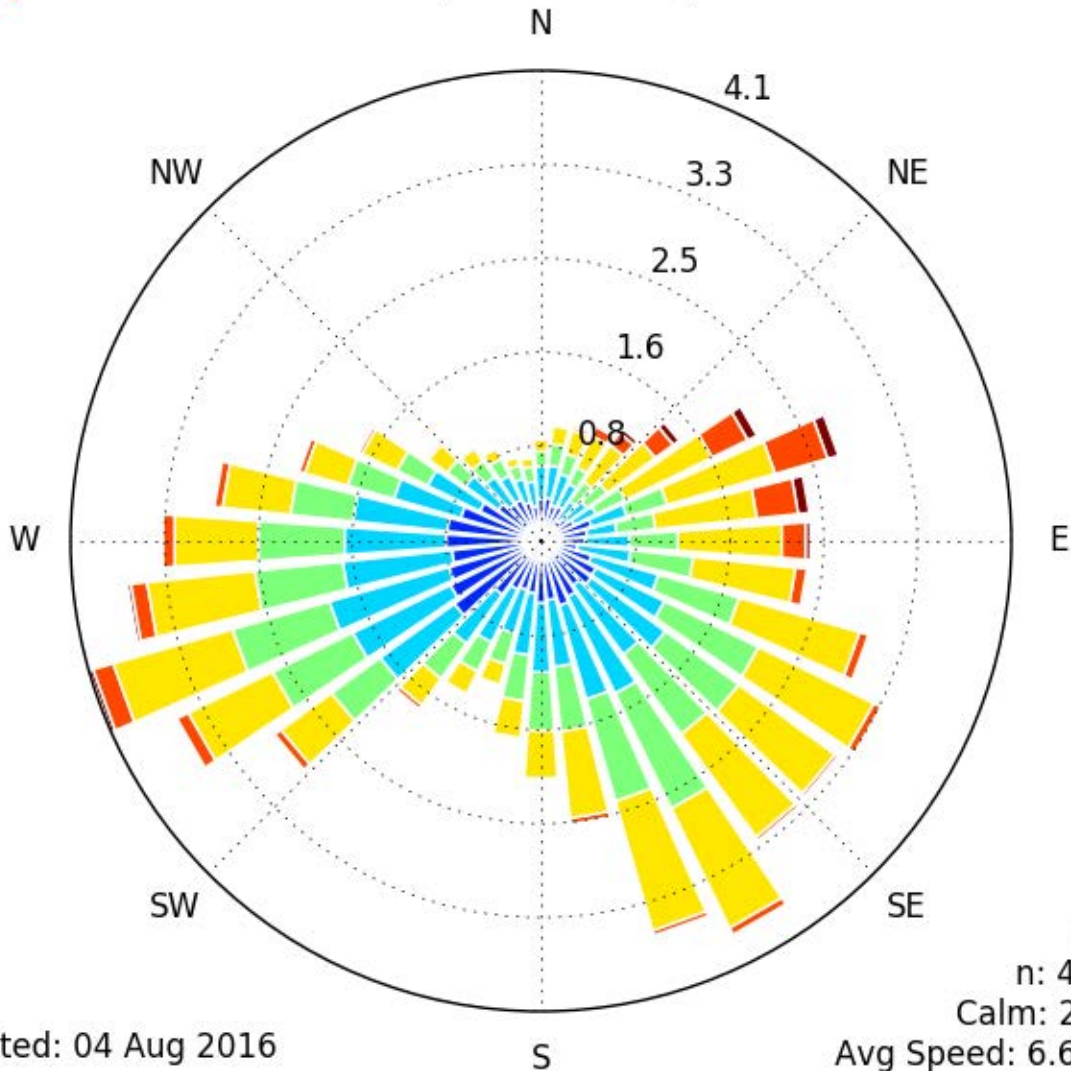
Stats  
n: 40191  
Calm: 21.3%  
Avg Speed: 6.9 mph

Generated: 04 Aug 2016



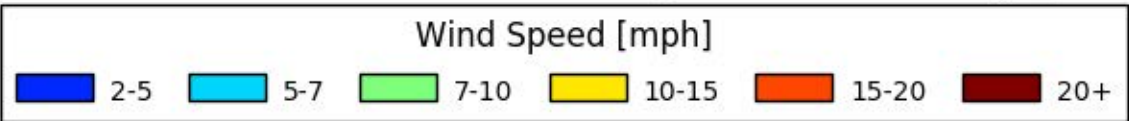


[BQK] BRUNSWICK/GLYNCO  
Windrose Plot [Time Domain: May,]  
Period of Record: 01 May 1973 - 31 May 2016



Stats  
n: 43318  
Calm: 21.5%  
Avg Speed: 6.6 mph

Generated: 04 Aug 2016

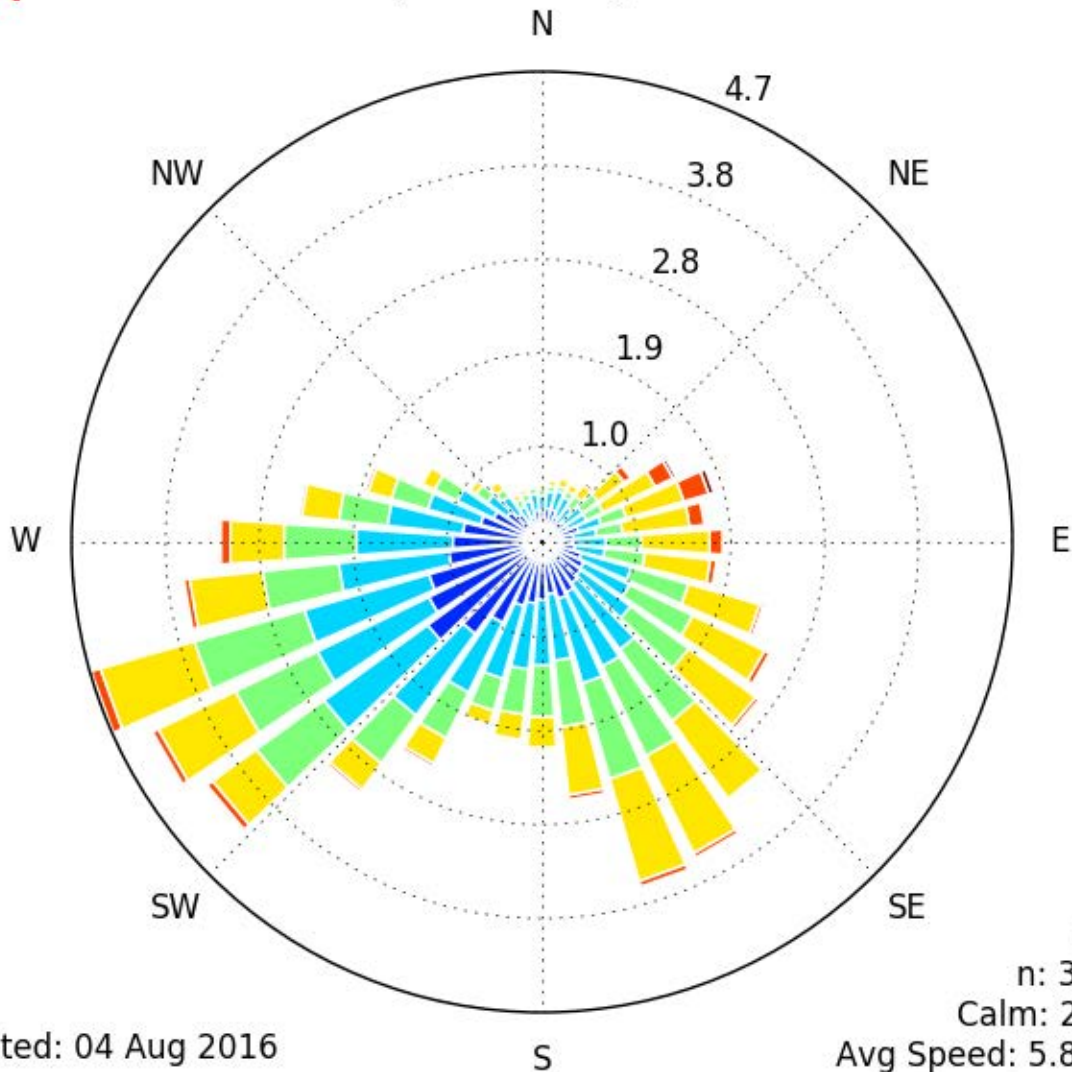




[BQK] BRUNSWICK/GLYNCO

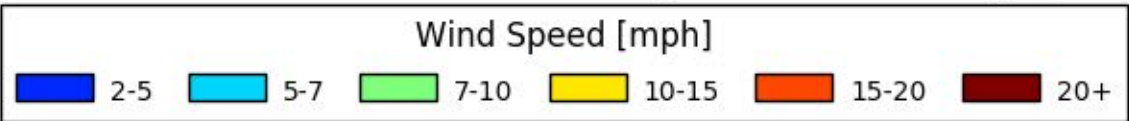
Windrose Plot [Time Domain: Jun,]

Period of Record: 01 Jun 1973 - 30 Jun 2016



Stats  
n: 39503  
Calm: 25.5%  
Avg Speed: 5.8 mph

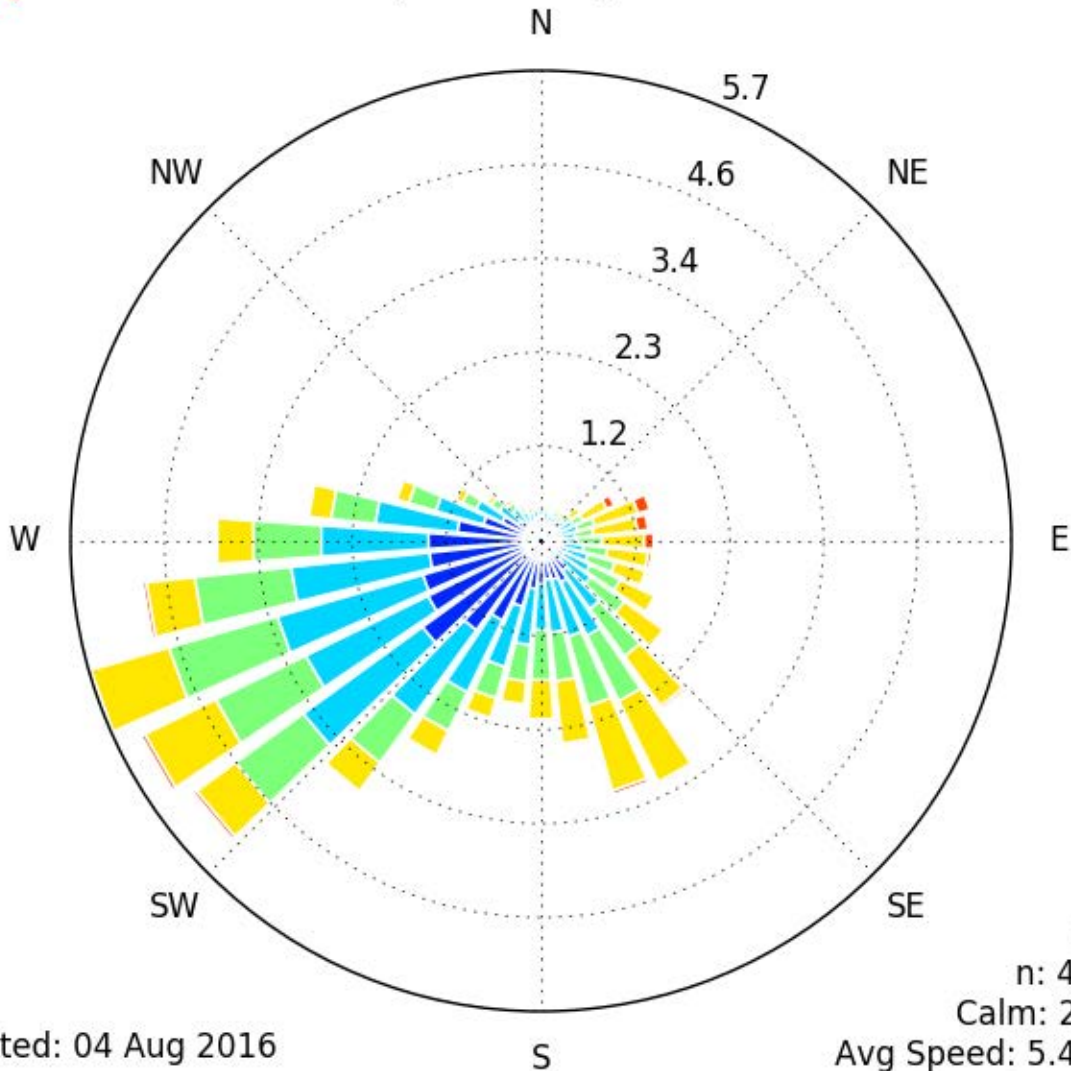
Generated: 04 Aug 2016





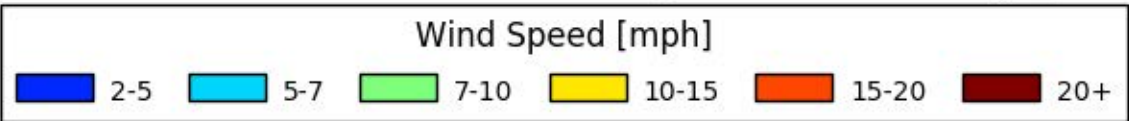


[BQK] BRUNSWICK/GLYNCO  
Windrose Plot [Time Domain: Jul,]  
Period of Record: 01 Jul 1973 - 31 Jul 2016



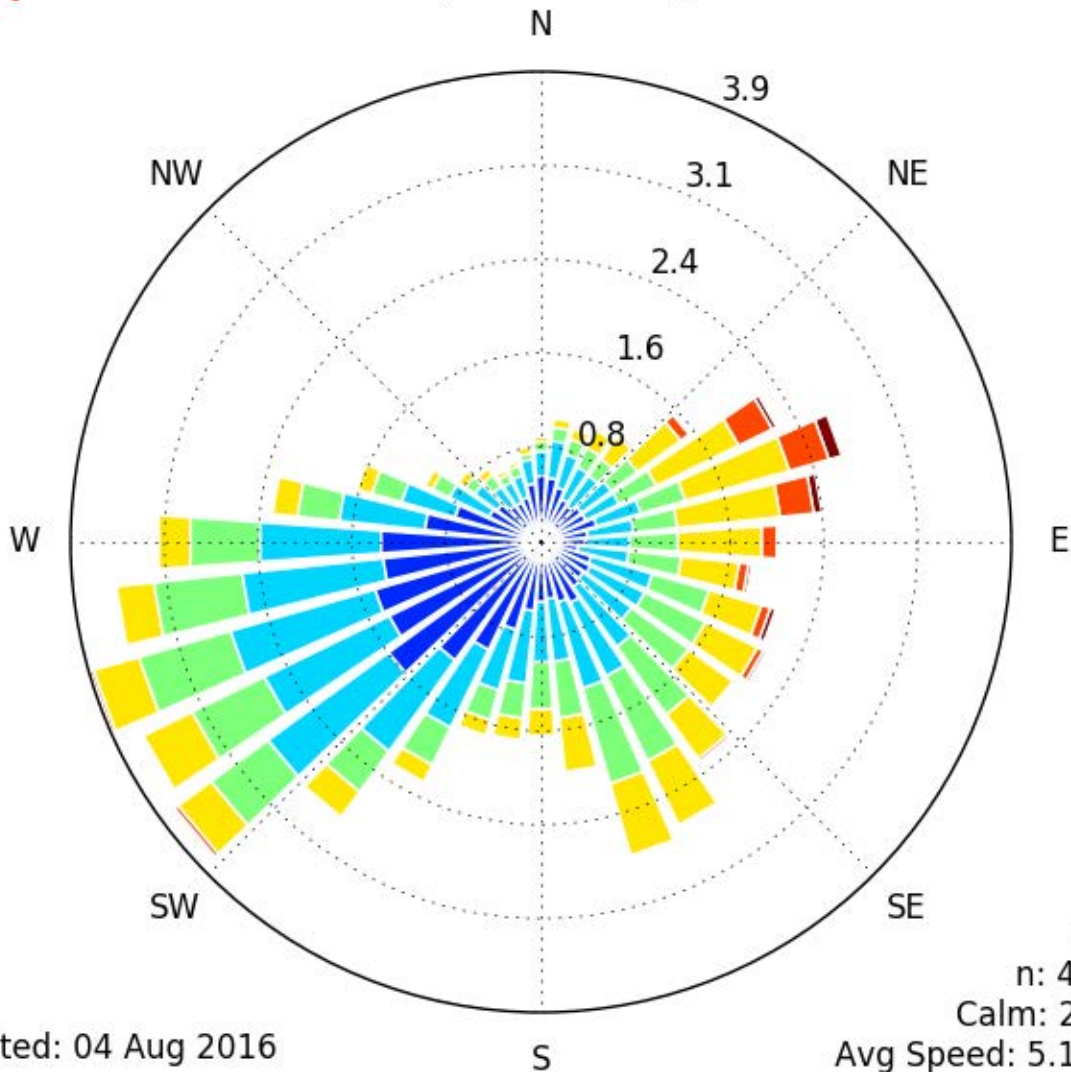
Stats  
n: 43802  
Calm: 27.3%  
Avg Speed: 5.4 mph

Generated: 04 Aug 2016



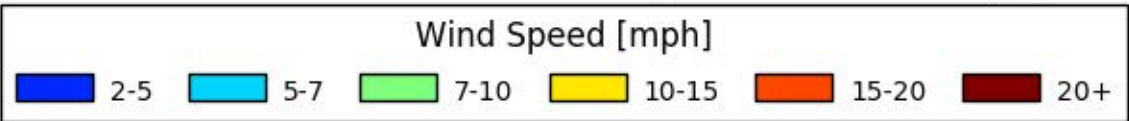


[BQK] BRUNSWICK/GLYNCO  
Windrose Plot [Time Domain: Aug,]  
Period of Record: 01 Aug 1973 - 03 Aug 2016



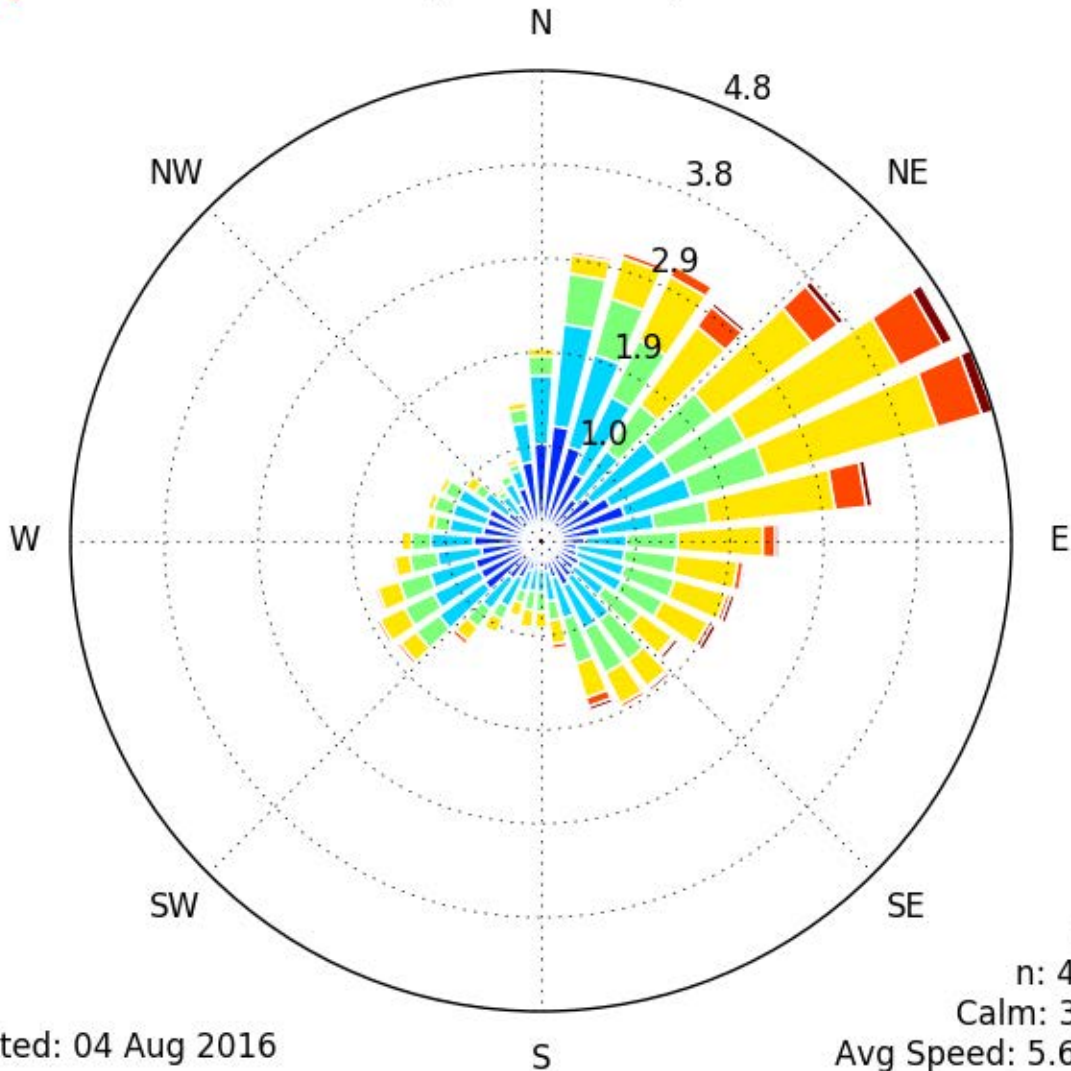
Stats  
n: 41477  
Calm: 29.9%  
Avg Speed: 5.1 mph

Generated: 04 Aug 2016



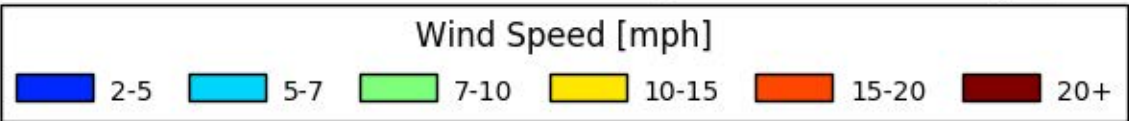


[BQK] BRUNSWICK/GLYNCO  
Windrose Plot [Time Domain: Sep,]  
Period of Record: 01 Sep 1973 - 30 Sep 2015



Stats  
n: 41242  
Calm: 30.2%  
Avg Speed: 5.6 mph

Generated: 04 Aug 2016

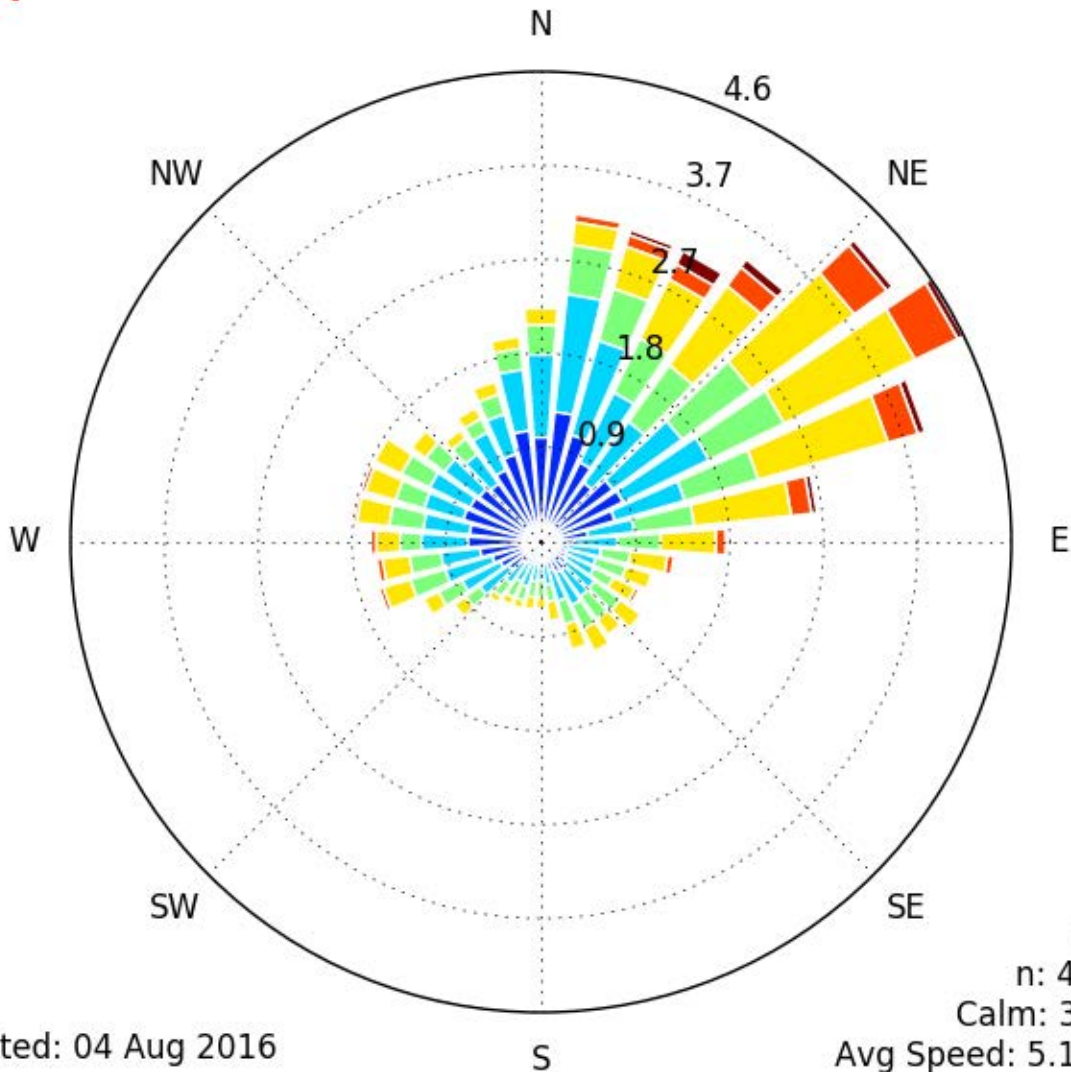




[BQK] BRUNSWICK/GLYNCO

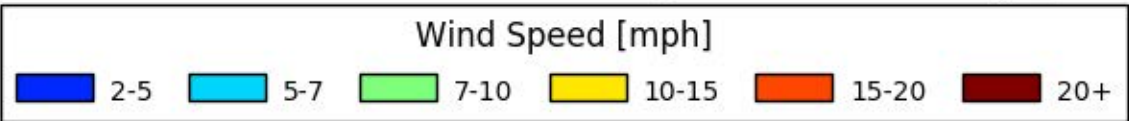
Windrose Plot [Time Domain: Oct,]

Period of Record: 01 Oct 1973 - 31 Oct 2015



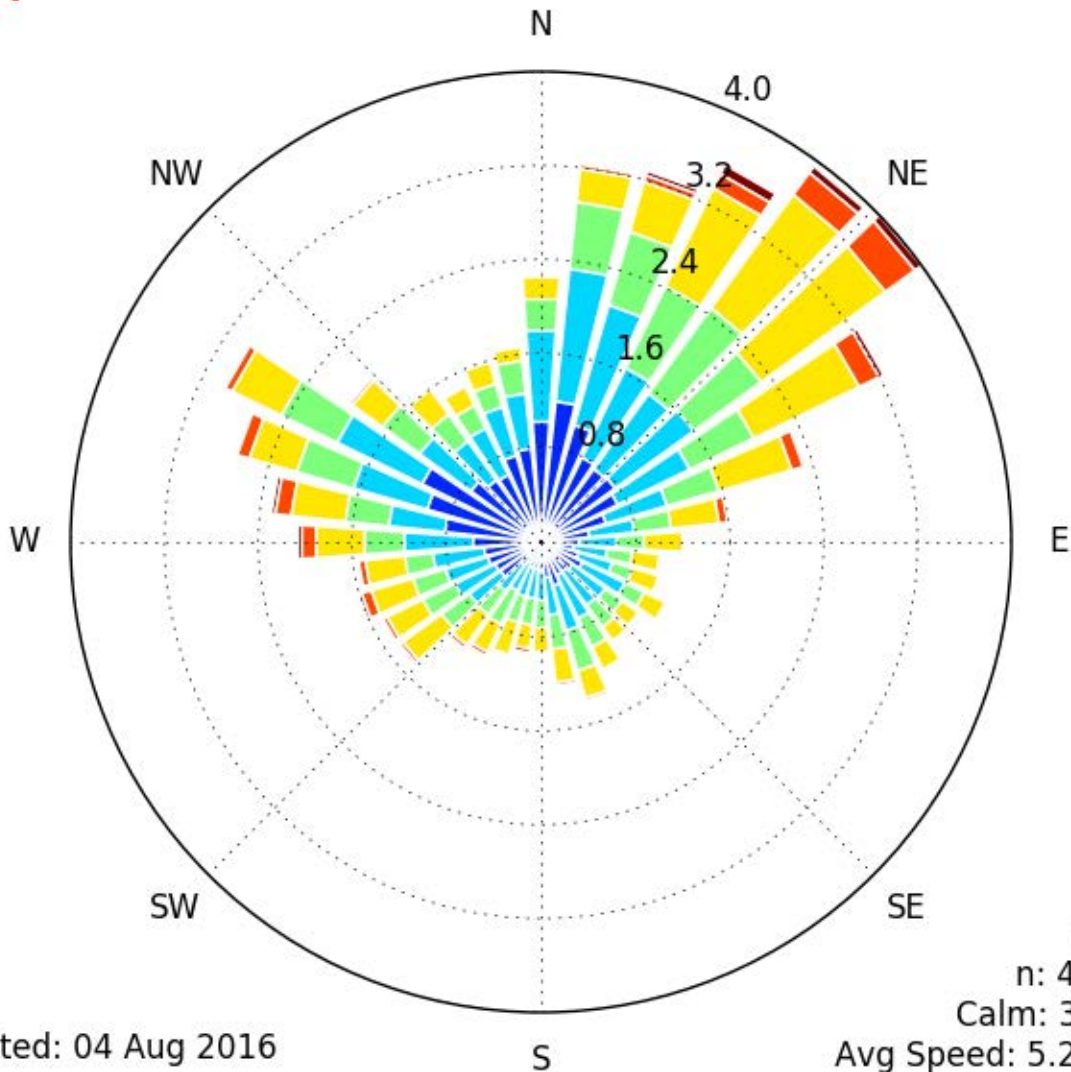
Stats  
n: 42669  
Calm: 34.3%  
Avg Speed: 5.1 mph

Generated: 04 Aug 2016



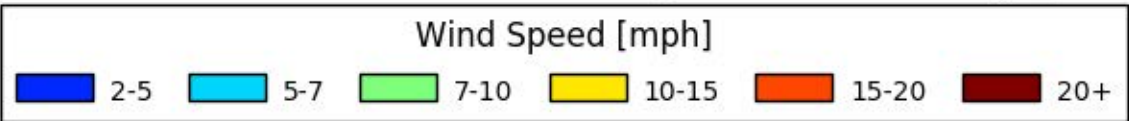


[BQK] BRUNSWICK/GLYNCO  
Windrose Plot [Time Domain: Nov,]  
Period of Record: 01 Nov 1973 - 30 Nov 2015



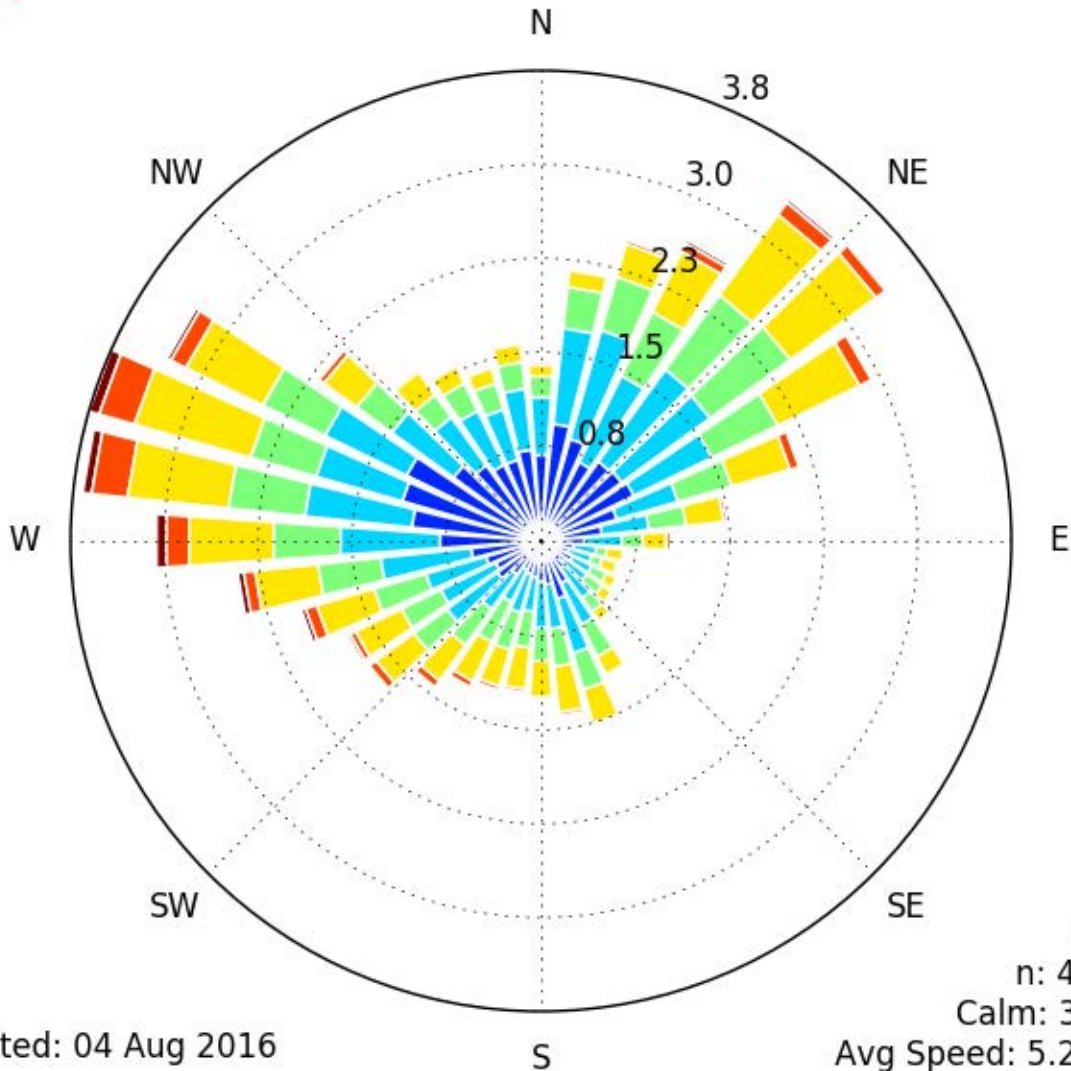
Stats  
n: 41665  
Calm: 32.7%  
Avg Speed: 5.2 mph

Generated: 04 Aug 2016



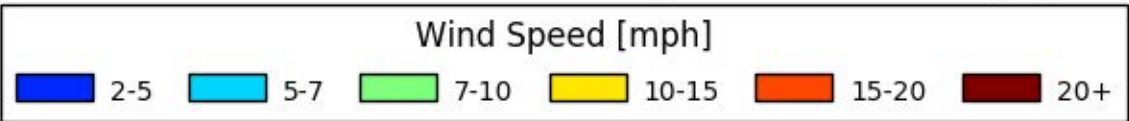


[BQK] BRUNSWICK/GLYNCO  
Windrose Plot [Time Domain: Dec,]  
Period of Record: 31 Dec 1972 - 31 Dec 2015



Stats  
n: 42896  
Calm: 31.9%  
Avg Speed: 5.2 mph

Generated: 04 Aug 2016





## **Appendix B**

### **Historical Groundwater Analytical Data**

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	71			25	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	17			1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		10	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	2.9			1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
E30-N20	E30-N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	7.3			2	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	0	U		25	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		10	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
E30-N40	E30-N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	0	U		2	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	84			25	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	2			1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	32			10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	2.4			1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
E30-S20	E30-S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	2.6			2	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	0	U		25	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		10	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
E30-S40	E30-S40_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	0	U		2	ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Acetone	630				ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Acetone	680				ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Carbon disulfide	24				ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Carbon disulfide	33				ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Methyl ethyl ketone	67				ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Methyl ethyl ketone	74				ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/92_DUP	Permanent	Active	5/20/1992	5.72 - 10.72	Vinyl chloride	0	U		10	ug/L
MW-1	MW-1_5/20/92_NM	Permanent	Active	5/20/1992	5.72 - 10.72	Vinyl chloride	0	U		10	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	2-Hexanone	0	U		100	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Acetone	420				ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Carbon disulfide	0	U		250	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	m & p-Xylenes	0	U		10	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Methyl ethyl ketone	0	U		100	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Methyl isobutenyl ketone	0	U		100	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Toluene	15				ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_1/20/05_NM	Permanent	Active	1/20/2005	5.72 - 10.72	Vinyl chloride	0	U		5	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	2-Hexanone	0	U		3	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Acetone	0	U		10	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Benzene	1.4	J			ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Carbon disulfide	0	U		4.5	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Ethylbenzene	0	U		1.5	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	m & p-Xylenes	0	U		1.5	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Methyl ethyl ketone	0	U		10	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Toluene	1	J			ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_1/30/07_NM	Permanent	Active	1/30/2007	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	2-Hexanone	0	U		70	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Acetone	5400				ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Benzene	0	U		35	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Carbon disulfide	0	U		48	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		41	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Ethylbenzene	0	U		43	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	m & p-Xylenes	0	U		85	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Methyl ethyl ketone	0	U		120	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Methyl isobutenyl ketone	0	U		150	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	o-Xylene	0	U		39	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Toluene	0	U		43	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		47	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_4/20/09_NM	Permanent	Active	4/20/2009	5.72 - 10.72	Vinyl chloride	0	U		48	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	2-Hexanone	0	U		0.7	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Acetone	4.6				ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Benzene	0	U		0.35	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Carbon disulfide	0	U		0.48	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		0.41	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Ethylbenzene	0	U		0.43	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	m & p-Xylenes	0	U		0.85	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Methyl ethyl ketone	0	U		1.2	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Methyl isobutenyl ketone	0	U		1.5	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	o-Xylene	0	U		0.39	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Toluene	0	U		0.43	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		0.47	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_6/18/10_NM	Permanent	Active	6/18/2010	5.72 - 10.72	Vinyl chloride	0	U		0.48	ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	2-Hexanone	0	U		0.69	ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Acetone	15				ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Benzene	0	U		0.2	ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Carbon disulfide	0	U		0.54	ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	cis-1,2-Dichloroethylene	0.44				ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	m & p-Xylenes	0	U		0.48	ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Methyl ethyl ketone	0	U		1	ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Methyl isobutenyl ketone	0	U		1.1	ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	o-Xylene	2				ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Toluene	0.46				ug/L
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1_11/22/10_NM	Permanent	Active	11/22/2010	5.72 - 10.72	Vinyl chloride	0	U		0.3	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Acetone	0	UJ		77	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Benzene	0	U		2.7	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Carbon disulfide	7.2	J			ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		2.2	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Methyl ethyl ketone	0	U		3.8	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	o-Xylene	0	U		2.5	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Toluene	0	U		3	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_3/9/11_NM	Permanent	Active	3/9/2011	5.72 - 10.72	Vinyl chloride	0	U		3.3	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	Acetone	0	U		11	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	Benzene	0	U		2.7	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	Carbon disulfide	0	U		2.4	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		2.2	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	Methyl ethyl ketone	0	U		3.8	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	o-Xylene	0	U		2.5	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	Toluene	0	U		3	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/26/11_NM	Permanent	Active	5/26/2011	5.72 - 10.72	Vinyl chloride	0	U		3.3	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/22/11_NM	Permanent	Active	11/22/2011	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/30/12_NM	Permanent	Active	5/30/2012	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/20/12_NM	Permanent	Active	11/20/2012	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	o-Xylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/22/13_NM	Permanent	Active	5/22/2013	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/18/13_NM	Permanent	Active	11/18/2013	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	cis-1,2-Dichloroethylene	9.1				ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/20/14_NM	Permanent	Active	5/20/2014	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/12/14_NM	Permanent	Active	11/12/2014	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_5/28/15_NM	Permanent	Active	5/28/2015	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_11/10/15_NM	Permanent	Active	11/10/2015	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,1,1-Trichloroethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,1,2-Trichloroethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,1-Dichloroethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,1-Dichloroethene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,2-Dibromoethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,2-Dichlorobenzene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,2-Dichloroethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,2-Dichloropropane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,3-Dichlorobenzene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	1,4-Dichlorobenzene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Bromoform	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Bromomethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Carbon tetrachloride	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Chlorobenzene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Chloroethane	0	U		10	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Chloroform	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Chloromethane	0	U		10	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	cis-1,2-Dichloroethylene	1.7	J		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Cyclohexane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Dibromochloromethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Dichlorobromomethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Dichlorodifluoromethane	0	U		10	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Methylcyclohexane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Methylene chloride	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Styrene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Trichlorofluoromethane	0	U		5	ug/L
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Trichlorotrifluoroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1_12/15/16_NM	Permanent	Active	12/15/2016	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,1,1-Trichloroethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,1,2-Trichloroethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,1-Dichloroethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,1-Dichloroethene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,2-Dibromoethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,2-Dichlorobenzene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,2-Dichloroethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,2-Dichloropropane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,3-Dichlorobenzene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	1,4-Dichlorobenzene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	2-Hexanone	0	U		10	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Acetone	0	U		50	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Benzene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Bromoform	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Bromomethane	0	U	UJ	5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Carbon tetrachloride	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Chlorobenzene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Chloroethane	0	U		10	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Chloroform	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Chloromethane	0	U		10	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Cumene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Cyclohexane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Dibromochloromethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Dichlorobromomethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Dichlorodifluoromethane	0	U		10	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Ethylbenzene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	m & p-Xylenes	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Methyl ethyl ketone	0	U		50	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Methyl isobutenyl ketone	0	U		10	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Methylcyclohexane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Methylene chloride	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	o-Xylene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Styrene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Tetrachloroethylene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Toluene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Trichloroethylene	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Trichlorofluoromethane	0	U		5	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Trichlorotrifluoroethane	0	U	UJ	10	ug/L
MW-1	MW-1-032417	Permanent	Active	3/24/2017	5.72 - 10.72	Vinyl chloride	0	U		2	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,2-Dibromoethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Acetone	6.2		J+	5	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Benzene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Bromomethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Chloroform	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	cis-1,2-Dichloroethylene	26		J+	1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Cumene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Cyclohexane	0	U		5	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Dichlorobromomethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	m & p-Xylenes	0	U		2	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Methylcyclohexane	0	U		5	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Methylene Chloride	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Styrene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Toluene	1.7		J+	1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-092817	Permanent	Active	9/28/2017	5.72 - 10.72	Vinyl chloride	3.3		J+	1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,2-Dibromoethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Acetone	0	U		5	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Benzene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Bromomethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Carbon disulfide	0	U		5	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Chloroform	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Cumene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Cyclohexane	0	U		5	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Dichlorobromomethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	m & p-Xylenes	0	U		2	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Methyl acetate	0	U		5	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Methylcyclohexane	0	U		5	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Methylene Chloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Styrene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Toluene	1.1			1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-113017	Permanent	Active	11/30/2017	5.72 - 10.72	Vinyl chloride	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,2-Dibromoethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Acetone	0	U		25	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Benzene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Bromodichloromethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Bromomethane	0	U		2	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Carbon disulfide	0	U		10	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Chloroform	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Cumene	0	U		10	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Cyclohexane	0	U		10	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	m & p-Xylenes	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Methyl acetate	0	U		10	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Methylcyclohexane	0	U		10	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Methylene Chloride	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Styrene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Toluene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-022218	Permanent	Active	2/22/2018	5.72 - 10.72	Vinyl chloride	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,2-Dibromoethane	0	U		2	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Acetone	0	U		25	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Benzene	7.7		J	1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Bromomethane	0	U		2	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Carbon disulfide	0	U		10	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Chloroform	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Cumene	0	U		10	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Cyclohexane	0	U		10	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Dichlorobromomethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	m & p-Xylenes	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Methyl acetate	0	U		10	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Methylcyclohexane	0	U		10	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Methylene Chloride	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Styrene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Toluene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-051018	Permanent	Active	5/10/2018	5.72 - 10.72	Vinyl chloride	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,2-Dibromoethane	0	U		2	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Acetone	0	U		25	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Benzene	2.3		J	1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Bromomethane	0	U		2	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Carbon disulfide	0	U		10	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Chloroform	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Cumene	0	U		10	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Cyclohexane	0	U		10	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Dichlorobromomethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	m & p-Xylenes	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Methyl acetate	0	U		10	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Methylcyclohexane	0	U		10	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Methylene Chloride	3.7			1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Styrene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Toluene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-080218	Permanent	Active	8/2/2018	5.72 - 10.72	Vinyl chloride	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,2-Dibromoethane	0	U		2	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Acetone	32.6			25	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Benzene	32.9			1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Bromomethane	0	U		2	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Carbon disulfide	0	U		10	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Chloroform	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Cumene	0	U		10	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Cyclohexane	0	U		10	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Dichlorobromomethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	m & p-Xylenes	3.4			1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Methyl acetate	0	U		10	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Methylcyclohexane	0	U		10	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Methylene Chloride	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Styrene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Toluene	1.1			1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-042519	Permanent	Active	4/25/2019	5.72 - 10.72	Vinyl chloride	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,2-Dibromoethane	0	U		2	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Acetone	0	U		25	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Benzene	2.9			1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Bromomethane	0	U		2	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Carbon disulfide	0	U		10	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Chloroform	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	cis-1,2-Dichloroethylene	1.1			1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Cumene	0	U		10	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Cyclohexane	0	U		10	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Dichlorobromomethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	m & p-Xylenes	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Methyl acetate	0	U		10	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Methylcyclohexane	0	U		10	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Methylene Chloride	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Styrene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Toluene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-112119	Permanent	Active	11/21/2019	5.72 - 10.72	Vinyl chloride	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,2-Dibromoethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Acetone	0	U		25	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Benzene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Bromomethane	0	U		2	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Carbon disulfide	0	U		2	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Chloroform	0	U		5	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Cumene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Cyclohexane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Dichlorobromomethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	m & p-Xylenes	0	U		2	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Methyl acetate	0	U		10	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Methylcyclohexane	0	U		10	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Methylene Chloride	0	U		5	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	o-Xylene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Styrene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Toluene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-042820	Permanent	Active	4/28/2020	5.72 - 10.72	Vinyl chloride	0	U		1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,1,1-Trichloroethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,1,2-Trichloroethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,1-Dichloroethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,1-Dichloroethene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,2,4-Trichlorobenzene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,2-Dibromoethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,2-Dichlorobenzene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,2-Dichloroethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,2-Dichloropropane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,3-Dichlorobenzene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	1,4-Dichlorobenzene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	2-Hexanone	0			5	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Acetone	0			25	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Benzene	6.7		J	1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Bromoform	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Bromomethane	0		UJ	2	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Carbon tetrachloride	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Chlorobenzene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Chloroethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Chloroform	0			5	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Chloromethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	cis-1,2-Dichloroethylene	1.4		J	1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	cis-1,3-Dichloropropylene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Cumene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Cyclohexane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Dibromochloromethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Dichlorobromomethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Dichlorodifluoromethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Ethylbenzene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Methyl acetate	0			10	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Methyl ethyl ketone	0			5	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Methyl isobutenyl ketone	0			5	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Methylcyclohexane	0			10	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Methylene Chloride	0			5	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Styrene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Tetrachloroethylene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Toluene	0.52	J	J	1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	trans-1,2-Dichloroethylene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	trans-1,3-Dichloropropylene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Trichloroethylene	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Trichlorofluoromethane	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Vinyl acetate	0			2	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Vinyl chloride	0			1	ug/L
MW-1	MW-1-102720	Permanent	Active	10/27/2020	5.72 - 10.72	Xylene (Total)	0			1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,1,1-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,1,2-Trichloroethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,1-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,1-Dichloroethene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,2-Dibromoethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,2-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,2-Dichloroethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,2-Dichloropropane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,3-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	1,4-Dichlorobenzene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	2-Hexanone	0	U		5	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Acetone	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Benzene	14.1		J	1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Bromoform	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Bromomethane	0	U		2	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Carbon tetrachloride	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Chlorobenzene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Chloroethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Chloroform	0	U		5	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Chloromethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Cumene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Cyclohexane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Dibromochloromethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Dibromomethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Dichlorobromomethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Dichlorodifluoromethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Ethylbenzene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Methyl acetate	0	U		10	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Methyl ethyl ketone	0	U		5	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Methyl isobutenyl ketone	0	U		5	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Methylcyclohexane	0	U		10	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Methylene Chloride	0	U		5	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Styrene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Tetrachloroethylene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Toluene	0.53	J	J	1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Trichloroethylene	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Trichlorofluoromethane	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Vinyl acetate	0	U		2	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Vinyl chloride	0	U		1	ug/L
MW-1	MW-1-040721	Permanent	Active	4/7/2021	5.72 - 10.72	Xylene (Total)	1.3		J	1	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	2-Hexanone	0	U		20	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Acetone	0	U		50	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Benzene	0	U		1	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Carbon disulfide	0	U		50	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Ethylbenzene	0	U		1	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	m & p-Xylenes	0	U		2	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Methyl ethyl ketone	0	U		20	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Methyl isobutenyl ketone	0	U		20	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	o-Xylene	0	U		1	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Toluene	0	U		1	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-10	MW-10_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Vinyl chloride	0	U		1	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	2-Hexanone	0	U		0.6	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Acetone	0	U		2	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Benzene	0.2	J			ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Carbon disulfide	1.4	J			ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	cis-1,2-Dichloroethylene	0	U		0.2	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Ethylbenzene	0	U		0.3	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	m & p-Xylenes	0.4	J			ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Methyl ethyl ketone	0	U		2	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Methyl isobutenyl ketone	0	U		2	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	o-Xylene	0.2	J			ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Toluene	0	U		0.2	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	trans-1,2-Dichloroethylene	0	U		0.2	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-10	MW-10_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Vinyl chloride	0	U		0.4	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	2-Hexanone	0	U		0.7	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Acetone	0	U		1	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Benzene	0	U		0.35	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Carbon disulfide	0	U		0.48	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	cis-1,2-Dichloroethylene	0	U		0.41	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Ethylbenzene	0	U		0.43	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	m & p-Xylenes	0	U		0.85	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Methyl ethyl ketone	0	U		1.2	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Methyl isobutenyl ketone	0	U		1.5	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	o-Xylene	0	U		0.39	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Toluene	0	U		0.43	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	trans-1,2-Dichloroethylene	0	U		0.47	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-10	MW-10_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Vinyl chloride	0	U		0.48	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1,1-Trichloroethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1,2-Trichloroethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1-Dichloroethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1-Dichloroethene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dibromoethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dichlorobenzene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dichloroethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dichloropropane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,3-Dichlorobenzene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,4-Dichlorobenzene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	2-Hexanone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Acetone	0	U		50	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Benzene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Bromoform	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Bromomethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Carbon disulfide	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Carbon tetrachloride	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Chlorobenzene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Chloroethane	0	U		10	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Chloroform	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Chloromethane	0	U		10	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Cumene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Cyclohexane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Dibromochloromethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Dichlorobromomethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Dichlorodifluoromethane	0	U		10	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Ethylbenzene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	m & p-Xylenes	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methyl acetate	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methyl ethyl ketone	0	U		50	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methyl isobutenyl ketone	0	U		10	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methylcyclohexane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methylene chloride	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	o-Xylene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Styrene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Toluene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Trichlorofluoromethane	0	U		5	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Trichlorotrifluoroethane	0	U		10	ug/L
MW-10	MW-10_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Vinyl chloride	0	U		2	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	2-Hexanone	0	U		20	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Acetone	0	U		50	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Benzene	0	U		1	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Carbon disulfide	0	U		50	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Ethylbenzene	0	U		1	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	m & p-Xylenes	0	U		2	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl ethyl ketone	0	U		20	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl isobutenyl ketone	0	U		20	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	o-Xylene	0	U		1	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Toluene	0	U		1	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Trichloroethylene	0	U		5	ug/L
MW-11	MW-11_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Vinyl chloride	0	U		1	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	2-Hexanone	0	U		20	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Acetone	0	U		50	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Benzene	0	U		1	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Carbon disulfide	0	U		50	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Ethylbenzene	0	U		1	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	m & p-Xylenes	0	U		2	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl ethyl ketone	0	U		20	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl isobutenyl ketone	0	U		20	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	o-Xylene	0	U		1	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Tetrachloroethylene	0	U		5	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Toluene	0	U		1	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Trichloroethylene	0	U		5	ug/L
MW-12	MW-12_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Vinyl chloride	0	U		1	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	2-Hexanone	0	U		20	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Acetone	62				ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Benzene	1	J			ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Carbon disulfide	0	U		50	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Ethylbenzene	0	U		1	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	m & p-Xylenes	34				ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Methyl ethyl ketone	0	U		20	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Methyl isobutenyl ketone	0	U		20	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	o-Xylene	3				ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Toluene	21				ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_1/20/05_NM	Permanent	Abandoned	1/20/2005	4.67 - 9.67	Vinyl chloride	0	U		1	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	2-Hexanone	0	U		3	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Acetone	0	U		10	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Benzene	3.1	J			ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Carbon disulfide	0	U		4.5	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Ethylbenzene	0	U		1.5	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	m & p-Xylenes	63.3				ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Methyl ethyl ketone	0	U		10	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Methyl isobutenyl ketone	0	U		10	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	o-Xylene	5.3				ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Toluene	42.4				ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_1/30/07_NM	Permanent	Abandoned	1/30/2007	4.67 - 9.67	Vinyl chloride	0	U		2	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	2-Hexanone	0	U		3.5	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Acetone	28				ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Benzene	1.8	J			ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Carbon disulfide	0	U		2.4	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		2	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Ethylbenzene	0	U		0.43	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	m & p-Xylenes	45				ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Methyl ethyl ketone	0	U		6	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Methyl isobutenyl ketone	0	U		7.5	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	o-Xylene	5.5				ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Toluene	14				ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		0.47	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_4/20/09_NM	Permanent	Abandoned	4/20/2009	4.67 - 9.67	Vinyl chloride	0	U		2.4	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	2-Hexanone	0	U		0.7	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Acetone	6.3				ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Benzene	0	U		0.35	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Carbon disulfide	0	U		0.48	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		0.41	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Ethylbenzene	0	U		0.43	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	m & p-Xylenes	1.9				ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Methyl ethyl ketone	0	U		1.2	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Methyl isobutenyl ketone	0	U		1.5	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	o-Xylene	0.61	J			ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Toluene	0	U		0.43	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		0.47	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_6/18/10_NM	Permanent	Abandoned	6/18/2010	4.67 - 9.67	Vinyl chloride	0	U		0.48	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	2-Hexanone	0	U		3.4	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Acetone	37	J			ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Benzene	0	U		1	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Carbon disulfide	0	U		2.7	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		1.8	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	m & p-Xylenes	37	J			ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Methyl ethyl ketone	0	U		5	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Methyl isobutenyl ketone	0	U		5.5	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	o-Xylene	5.8	J			ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Toluene	6	J			ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/22/10_NM	Permanent	Abandoned	11/22/2010	4.67 - 9.67	Vinyl chloride	0	U		1.5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	2-Hexanone	0	U		5	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Acetone	150				ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Benzene	0	U		2.7	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Carbon disulfide	2.6	J			ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		2.2	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Ethylbenzene	0	U		5	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	m & p-Xylenes	47				ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Methyl ethyl ketone	0	U		3.8	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Methyl isobutenyl ketone	0	U		10	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	o-Xylene	4.9	J			ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Toluene	0	U		3	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_3/9/11_NM	Permanent	Abandoned	3/9/2011	4.67 - 9.67	Vinyl chloride	0	U		3.3	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	2-Hexanone	0	U		5	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Acetone	110				ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Benzene	0	U		2.7	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Carbon disulfide	0	U		2.4	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		2.2	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Ethylbenzene	0	U		5	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	m & p-Xylenes	43				ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Methyl ethyl ketone	0	U		3.8	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Methyl isobutenyl ketone	0	U		10	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	o-Xylene	2.6	J			ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Toluene	6.9	J			ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_5/26/11_NM	Permanent	Abandoned	5/26/2011	4.67 - 9.67	Vinyl chloride	0	U		3.3	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	2-Hexanone	0	U		10	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Acetone	0	U		50	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Benzene	0	U		5	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Carbon disulfide	0	U		5	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Cumene	0	U		5	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Ethylbenzene	0	U		5	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	m & p-Xylenes	79				ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Methyl acetate	0	U		5	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Methyl ethyl ketone	0	U		50	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Methyl isobutenyl ketone	0	U		10	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	o-Xylene	5.1				ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Toluene	23				ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-13	MW-13_11/22/11_NM	Permanent	Abandoned	11/22/2011	4.67 - 9.67	Vinyl chloride	0	U		2	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	2-Hexanone	0	U		10	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Acetone	55				ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Benzene	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Carbon disulfide	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Cumene	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Ethylbenzene	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	m & p-Xylenes	72				ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Methyl acetate	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Methyl ethyl ketone	0	U		50	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Methyl isobutenyl ketone	0	U		10	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	o-Xylene	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Toluene	9.8				ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_5/30/12_NM	Permanent	Abandoned	5/30/2012	4.67 - 9.67	Vinyl chloride	0	U		2	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	2-Hexanone	0	U		10	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Acetone	0	U		50	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Benzene	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Carbon disulfide	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Cumene	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Ethylbenzene	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	m & p-Xylenes	110	J			ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Methyl acetate	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Methyl ethyl ketone	0	U		50	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Methyl isobutenyl ketone	0	U		10	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	o-Xylene	7.7	J			ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Toluene	30	J			ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/20/12_NM	Permanent	Abandoned	11/20/2012	4.67 - 9.67	Vinyl chloride	0	U		2	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	2-Hexanone	0	U		10	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Acetone	94				ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Benzene	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Carbon disulfide	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Cumene	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Ethylbenzene	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	m & p-Xylenes	77				ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Methyl acetate	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Methyl ethyl ketone	0	U		50	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Methyl isobutenyl ketone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	o-Xylene	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Toluene	17				ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_5/22/13_NM	Permanent	Abandoned	5/22/2013	4.67 - 9.67	Vinyl chloride	0	U		2	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	2-Hexanone	0	U		10	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Acetone	0	U		50	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Benzene	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Carbon disulfide	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Cumene	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Ethylbenzene	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	m & p-Xylenes	65				ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Methyl acetate	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Methyl ethyl ketone	0	U		50	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Methyl isobutenyl ketone	0	U		10	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	o-Xylene	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Tetrachloroethylene	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Toluene	16				ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Trichloroethylene	0	U		5	ug/L
MW-13	MW-13_11/18/13_NM	Permanent	Abandoned	11/18/2013	4.67 - 9.67	Vinyl chloride	0	U		2	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	2-Hexanone	55	J			ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Acetone	250	J			ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	cis-1,2-Dichloroethylene	2900				ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Cumene	33	J			ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Ethylbenzene	5.4	J			ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Methyl isobutenyl ketone	22	J			ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Toluene	25	J			ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	trans-1,2-Dichloroethylene	7.9	J			ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_8/15/12_NM	Permanent	Abandoned	8/15/2012	3.89 - 13.89	Vinyl chloride	17	J			ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	2-Hexanone	31				ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	2-Hexanone	38				ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Acetone	260				ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Acetone	350				ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Benzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	cis-1,2-Dichloroethylene	3100				ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	cis-1,2-Dichloroethylene	2800				ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Cumene	22	J			ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Cumene	16	J			ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Methyl isobutenyl ketone	12				ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Methyl isobutenyl ketone	0	U		10	ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Toluene	17				ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Toluene	18				ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	trans-1,2-Dichloroethylene	7.9				ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	trans-1,2-Dichloroethylene	11				ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_5/22/13_NM	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Vinyl chloride	15				ug/L
MW-14	MW-14_5/22/13_DUP	Permanent	Abandoned	5/22/2013	3.89 - 13.89	Vinyl chloride	15				ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	2-Hexanone	35				ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	2-Hexanone	34				ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Acetone	350				ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Acetone	360				ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	cis-1,2-Dichloroethylene	1600				ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	cis-1,2-Dichloroethylene	1600				ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Cumene	20				ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Cumene	24				ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Methyl isobutenyl ketone	0	U		10	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Methyl isobutenyl ketone	0	U		10	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Toluene	19				ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Toluene	17				ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	trans-1,2-Dichloroethylene	6.5				ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	trans-1,2-Dichloroethylene	5.8				ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_11/18/13_NM	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Vinyl chloride	20				ug/L
MW-14	MW-14_11/18/13_DUP	Permanent	Abandoned	11/18/2013	3.89 - 13.89	Vinyl chloride	18				ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	2-Hexanone	23				ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	2-Hexanone	24				ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Acetone	190				ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Acetone	170				ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	cis-1,2-Dichloroethylene	1900				ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	cis-1,2-Dichloroethylene	2000				ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Cumene	12				ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Cumene	15				ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Methyl isobutenyl ketone	0	U		10	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Methyl isobutenyl ketone	0	U		10	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Toluene	19				ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Toluene	19				ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	trans-1,2-Dichloroethylene	5.6				ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_5/21/14_NM	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Vinyl chloride	17				ug/L
MW-14	MW-14_5/21/14_DUP	Permanent	Abandoned	5/21/2014	3.89 - 13.89	Vinyl chloride	23				ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	2-Hexanone	37	J			ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	2-Hexanone	47				ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Acetone	250	J			ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Acetone	360	J			ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	cis-1,2-Dichloroethylene	3700				ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	cis-1,2-Dichloroethylene	3700				ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Cumene	21	J			ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Cumene	21				ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Methyl acetate	5				ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Methyl isobutenyl ketone	13	J			ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Methyl isobutenyl ketone	14				ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Toluene	21	J			ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Toluene	22				ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	trans-1,2-Dichloroethylene	11	J			ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	trans-1,2-Dichloroethylene	13				ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_11/12/14_NM	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Vinyl chloride	18	J			ug/L
MW-14	MW-14_11/12/14_DUP	Permanent	Abandoned	11/12/2014	3.89 - 13.89	Vinyl chloride	16				ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	2-Hexanone	55				ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	2-Hexanone	60				ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Acetone	500				ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Acetone	570				ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	cis-1,2-Dichloroethylene	4800				ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	cis-1,2-Dichloroethylene	5000				ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Cumene	18				ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Cumene	18				ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Methyl isobutenyl ketone	20				ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Methyl isobutenyl ketone	19				ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Toluene	21				ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Toluene	22				ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	trans-1,2-Dichloroethylene	16				ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	trans-1,2-Dichloroethylene	15				ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_5/28/15_DUP	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Vinyl chloride	14				ug/L
MW-14	MW-14_5/28/15_NM	Permanent	Abandoned	5/28/2015	3.89 - 13.89	Vinyl chloride	14				ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	2-Hexanone	14				ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Acetone	150				ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Benzene	0	U		5	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	cis-1,2-Dichloroethylene	2000				ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Cumene	19				ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Ethylbenzene	0	U		5	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	m & p-Xylenes	0	U		5	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Methyl isobutenyl ketone	0	U		10	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	o-Xylene	0	U		5	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Toluene	13				ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	trans-1,2-Dichloroethylene	7.2				ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14_11/10/15_NM	Permanent	Abandoned	11/10/2015	3.89 - 13.89	Vinyl chloride	14				ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,1,1-Trichloroethane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,1,2-Trichloroethane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,1-Dichloroethane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,1-Dichloroethene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,2-Dibromoethane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,2-Dichlorobenzene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,2-Dichloroethane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,2-Dichloropropane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,3-Dichlorobenzene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	1,4-Dichlorobenzene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	2-Hexanone	59			10	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Acetone	170			50	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Benzene	0.95	J		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Bromoform	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Bromomethane	0	U	UJ	5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Carbon tetrachloride	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Chlorobenzene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Chloroethane	0	U		10	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Chloroform	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Chloromethane	0	U		10	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	cis-1,2-Dichloroethylene	1800			250	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Cumene	17			5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Cyclohexane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Dibromochloromethane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Dichlorobromomethane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Dichlorodifluoromethane	0	U		10	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Ethylbenzene	2.7	J	J	5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	m & p-Xylenes	1.3	J	J	5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Methyl acetate	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Methyl isobutenyl ketone	19			10	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Methylcyclohexane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Methylene chloride	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	o-Xylene	0	U	UJ	5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Styrene	0	U	UJ	5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Toluene	23			5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	trans-1,2-Dichloroethylene	7.2			5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Trichlorofluoromethane	0	U		5	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Trichlorotrifluoroethane	0	U		10	ug/L
MW-14	MW-14-032517	Permanent	Abandoned	3/25/2017	3.89 - 13.89	Vinyl chloride	14			2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,1,1-Trichloroethane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,1,2-Trichloroethane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,1-Dichloroethane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,1-Dichloroethene	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,2-Dibromoethane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,2-Dichlorobenzene	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,2-Dichloroethane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,2-Dichloropropane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,3-Dichlorobenzene	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	1,4-Dichlorobenzene	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	2-Hexanone	10		J	10	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Acetone	32	J	J	50	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Benzene	0.52	J		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Bromoform	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Bromomethane	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Carbon disulfide	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Chlorobenzene	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Chloroethane	0	U		10	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Chloroform	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Chloromethane	0	U		10	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	cis-1,2-Dichloroethylene	850			100	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Cumene	9.3			5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Cyclohexane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Dibromochloromethane	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Dichlorobromomethane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Dichlorodifluoromethane	0	U		10	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Ethylbenzene	1.4	J		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	m & p-Xylenes	0.84	J		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Methyl acetate	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Methyl isobutenyl ketone	4.4	J		10	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Methylcyclohexane	1.8	J		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Methylene chloride	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	o-Xylene	0.27	J		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Styrene	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Tetrachloroethylene	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Toluene	8.2			5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	trans-1,2-Dichloroethylene	2.8	J		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Trichlorofluoromethane	0	U		5	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Trichlorotrifluoroethane	0	U		10	ug/L
MW-14	MW-14-061417	Permanent	Abandoned	6/14/2017	3.89 - 13.89	Vinyl chloride	6.7			2	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,1,1-Trichloroethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,1,2-Trichloroethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,1-Dichloroethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,1-Dichloroethene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,2-Dibromoethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,2-Dichlorobenzene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,2-Dichloroethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,2-Dichloropropane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,3-Dichlorobenzene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	1,4-Dichlorobenzene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	2-Hexanone	0	U		50	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Acetone	69			50	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Benzene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Bromoform	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Bromomethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Carbon disulfide	0	U		50	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Carbon tetrachloride	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Chlorobenzene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Chloroethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Chloroform	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Chloromethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	cis-1,2-Dichloroethylene	812			10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Cumene	16.9			10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Cyclohexane	0	U		50	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Dibromochloromethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Dichlorobromomethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Dichlorodifluoromethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Ethylbenzene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	m & p-Xylenes	0	U		20	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Methyl acetate	0	U		50	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Methyl isobutenyl ketone	0	U		50	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Methylcyclohexane	0	U		50	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Methylene Chloride	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	o-Xylene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Styrene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Tetrachloroethylene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Toluene	20.2			10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Trichloroethylene	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Trichlorofluoromethane	0	U		10	ug/L
MW-14	MW-14-092917	Permanent	Abandoned	9/29/2017	3.89 - 13.89	Vinyl chloride	23.5			10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,1,1-Trichloroethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,1,2-Trichloroethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,1-Dichloroethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,1-Dichloroethene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,2-Dibromoethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,2-Dichlorobenzene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,2-Dichloroethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,2-Dichloropropane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,3-Dichlorobenzene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	1,4-Dichlorobenzene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	2-Hexanone	61.3			50	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Acetone	308			50	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Benzene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Bromoform	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Bromomethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Carbon disulfide	0	U		50	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Carbon tetrachloride	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Chlorobenzene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Chloroethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Chloroform	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Chloromethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	cis-1,2-Dichloroethylene	1610			10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Cumene	24			10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Cyclohexane	0	U		50	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Dibromochloromethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Dichlorobromomethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Dichlorodifluoromethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Ethylbenzene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	m & p-Xylenes	0	U		20	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Methyl acetate	0	U		50	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Methyl ethyl ketone	0	U		50	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Methyl isobutenyl ketone	0	U		50	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Methylcyclohexane	0	U		50	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Methylene Chloride	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	o-Xylene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Styrene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Tetrachloroethylene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Toluene	32.1			10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Trichloroethylene	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Trichlorofluoromethane	0	U		10	ug/L
MW-14	MW-14-120217	Permanent	Abandoned	12/2/2017	3.89 - 13.89	Vinyl chloride	18.9			10	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,1,1-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,1,2-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,1-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,1-Dichloroethene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,2-Dibromoethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,2-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,2-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,2-Dichloropropane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,3-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	1,4-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	2-Hexanone	53.5		J	5	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Acetone	173		J	25	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Benzene	1.7		J	1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Bromodichloromethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Bromoform	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Bromomethane	0	U		2	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Carbon disulfide	0	U		10	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Carbon tetrachloride	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Chlorobenzene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Chloroethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Chloroform	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Chloromethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	cis-1,2-Dichloroethylene	2570		J	100	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Cumene	37.2		J	10	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Cyclohexane	0	U		10	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Dibromochloromethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Dichlorodifluoromethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Ethylbenzene	4.6		J	1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	m & p-Xylenes	5.7		J	1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Methyl acetate	0	U		10	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Methyl ethyl ketone	19.3		J	5	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Methyl isobutenyl ketone	22.2		J	5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Methylcyclohexane	0	U		10	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Methylene Chloride	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	o-Xylene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Styrene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Tetrachloroethylene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Toluene	29.7		J	1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Trichloroethylene	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Trichlorofluoromethane	0	U		1	ug/L
MW-14	MW-14-022318	Permanent	Abandoned	2/23/2018	3.89 - 13.89	Vinyl chloride	18.2		J	1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,1,1-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,1,2-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,1-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,1-Dichloroethene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,2-Dibromoethane	0	U		2	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,2-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,2-Dichloroethane	1.1			1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,2-Dichloropropane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,3-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	1,4-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	2-Hexanone	76.8			5	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Acetone	566			250	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Benzene	2.3			1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Bromoform	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Bromomethane	0	U		2	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Carbon disulfide	0	U		10	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Carbon tetrachloride	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Chlorobenzene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Chloroethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Chloroform	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Chloromethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	cis-1,2-Dichloroethylene	2700			50	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Cumene	45.4			10	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Cyclohexane	0	U		10	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Dibromochloromethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Dichlorobromomethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Dichlorodifluoromethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Ethylbenzene	6.6			1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	m & p-Xylenes	2.3			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Methyl acetate	0	U		10	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Methyl ethyl ketone	32.6			5	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Methyl isobutenyl ketone	32.3			5	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Methylcyclohexane	0	U		10	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Methylene Chloride	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Oil and Grease	0	U		5	mg/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	o-Xylene	1.1			1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Styrene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Tetrachloroethylene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Toluene	41.6			1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	trans-1,2-Dichloroethylene	10.6			1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Trichloroethylene	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Trichlorofluoromethane	0	U		1	ug/L
MW-14	MW-14-051118	Permanent	Abandoned	5/11/2018	3.89 - 13.89	Vinyl chloride	30.1		J	1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,1,1-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,1,2-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,1-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,1-Dichloroethene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,2-Dibromoethane	0	U		2	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,2-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,2-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,2-Dichloropropane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,3-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	1,4-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	2-Hexanone	36.2			5	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Acetone	118			25	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Benzene	1.2			1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Bromoform	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Bromomethane	0	U		2	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Carbon disulfide	0	U		10	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Carbon tetrachloride	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Chlorobenzene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Chloroethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Chloroform	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Chloromethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	cis-1,2-Dichloroethylene	2260			50	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Cumene	31.9			10	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Cyclohexane	0	U		10	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Dibromochloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Dichlorobromomethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Dichlorodifluoromethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Ethylbenzene	4.7			1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	m & p-Xylenes	1.8			1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Methyl acetate	0	U		10	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Methyl ethyl ketone	0	U		5	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Methyl isobutenyl ketone	17.2			5	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Methylcyclohexane	0	U		10	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Methylene Chloride	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	o-Xylene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Styrene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Tetrachloroethylene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Toluene	30.8			1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Trichloroethylene	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Trichlorofluoromethane	0	U		1	ug/L
MW-14	MW-14-080418	Permanent	Abandoned	8/4/2018	3.89 - 13.89	Vinyl chloride	14.5			1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,1,1-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,1,2-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,1-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,1-Dichloroethene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,2-Dibromoethane	0	U		2	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,2-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,2-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,2-Dichloropropane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,3-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	1,4-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	2-Hexanone	84		J+	5	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Acetone	294		J+	25	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Benzene	2		J+	1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Bromoform	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Bromomethane	0	U		2	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Carbon disulfide	0	U		10	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Carbon tetrachloride	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Chlorobenzene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Chloroethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Chloroform	0	U	U	1.7	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Chloromethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	cis-1,2-Dichloroethylene	2870		J+	100	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Cumene	72.8		J+	10	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Cyclohexane	0	U		10	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Dibromochloromethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Dichlorobromomethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Dichlorodifluoromethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Ethylbenzene	7.3		J+	1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	m & p-Xylenes	7.9		J+	1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Methyl acetate	0	U		10	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Methyl ethyl ketone	37.3		J+	5	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Methyl isobutenyl ketone	31.9		J+	5	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Methylcyclohexane	15.1		J+	10	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Methylene Chloride	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	o-Xylene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Styrene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Tetrachloroethylene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Toluene	43.3		J+	1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	trans-1,2-Dichloroethylene	10.8		J+	1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Trichloroethylene	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Trichlorofluoromethane	0	U		1	ug/L
MW-14	MW-14-042619	Permanent	Abandoned	4/26/2019	3.89 - 13.89	Vinyl chloride	19.6		J+	1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1,1-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1,1-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1,2-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1,2-Trichloroethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1-Dichloroethene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,1-Dichloroethene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dibromoethane	0	U		2	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dibromoethane	0	U		2	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dichloroethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dichloropropane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,2-Dichloropropane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,3-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,3-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,4-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	1,4-Dichlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	2-Hexanone	10.2			5	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	2-Hexanone	9.4			5	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Acetone	42.2			25	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Acetone	46.3			25	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Benzene	1.1			1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Benzene	1.2			1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Bromoform	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Bromoform	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Bromomethane	0	U		2	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Bromomethane	0	U		2	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Carbon disulfide	0	U		10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Carbon disulfide	0	U		10	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Carbon tetrachloride	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Carbon tetrachloride	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Chlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Chlorobenzene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Chloroethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Chloroethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Chloroform	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Chloroform	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Chloromethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Chloromethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	cis-1,2-Dichloroethylene	1110			10	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	cis-1,2-Dichloroethylene	1150			10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Cumene	17.6			10	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Cumene	17.1			10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Cyclohexane	0	U		10	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Cyclohexane	0	U		10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Dibromochloromethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Dibromochloromethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Dichlorobromomethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Dichlorobromomethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Dichlorodifluoromethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Dichlorodifluoromethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Ethylbenzene	2.7			1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Ethylbenzene	2.6			1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	m & p-Xylenes	1.1			1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	m & p-Xylenes	1.2			1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methyl acetate	0	U		10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methyl acetate	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methyl ethyl ketone	11.7			5	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methyl ethyl ketone	12.8			5	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methyl isobutenyl ketone	5.5			5	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methyl isobutenyl ketone	5.2			5	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methylcyclohexane	0	U		10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methylcyclohexane	0	U		10	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methylene Chloride	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Methylene Chloride	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	o-Xylene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	o-Xylene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Styrene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Styrene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Tetrachloroethylene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Tetrachloroethylene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Toluene	14.7			1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Toluene	14.8			1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	trans-1,2-Dichloroethylene	3.7			1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	trans-1,2-Dichloroethylene	3.6			1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Trichloroethylene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Trichloroethylene	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Trichlorofluoromethane	0	U		1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Trichlorofluoromethane	0	U		1	ug/L
MW-14	MW-14-112219-DUP	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Vinyl chloride	11.7			1	ug/L
MW-14	MW-14-112219	Permanent	Abandoned	11/22/2019	3.89 - 13.89	Vinyl chloride	12			1	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	2-Hexanone	0	U		10	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Acetone	70				ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Benzene	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Carbon disulfide	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	cis-1,2-Dichloroethylene	140				ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Cumene	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Ethylbenzene	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	m & p-Xylenes	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Methyl acetate	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Methyl ethyl ketone	0	U		50	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Methyl isobutenyl ketone	0	U		10	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	o-Xylene	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Tetrachloroethylene	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Toluene	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Trichloroethylene	0	U		5	ug/L
MW-15	MW-15_8/15/12_NM	Permanent	Abandoned	8/15/2012	33 - 43	Vinyl chloride	4.8				ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	2-Hexanone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Acetone	0	U		50	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Benzene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Carbon disulfide	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Cumene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Ethylbenzene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	m & p-Xylenes	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Methyl acetate	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Methyl ethyl ketone	0	U		50	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Methyl isobutenyl ketone	0	U		10	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	o-Xylene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Tetrachloroethylene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Toluene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Trichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/22/13_NM	Permanent	Abandoned	5/22/2013	33 - 43	Vinyl chloride	0	U		2	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	2-Hexanone	0	U		10	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Acetone	0	U		50	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Benzene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Carbon disulfide	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Cumene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Ethylbenzene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	m & p-Xylenes	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Methyl acetate	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Methyl ethyl ketone	0	U		50	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Methyl isobutenyl ketone	0	U		10	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	o-Xylene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Tetrachloroethylene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Toluene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Trichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/18/13_NM	Permanent	Abandoned	11/18/2013	33 - 43	Vinyl chloride	0	U		2	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	2-Hexanone	0	U		10	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Acetone	0	U		50	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Benzene	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Carbon disulfide	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Cumene	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Ethylbenzene	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	m & p-Xylenes	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Methyl acetate	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Methyl ethyl ketone	0	U		50	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Methyl isobutenyl ketone	0	U		10	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	o-Xylene	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Toluene	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Trichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/20/14_NM	Permanent	Abandoned	5/20/2014	33 - 43	Vinyl chloride	0	U		2	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	2-Hexanone	0	U		10	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Acetone	0	U		50	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Benzene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Carbon disulfide	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Cumene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Ethylbenzene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	m & p-Xylenes	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Methyl acetate	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Methyl ethyl ketone	0	U		50	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Methyl isobutenyl ketone	0	U		10	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	o-Xylene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Tetrachloroethylene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Toluene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Trichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/11/14_NM	Permanent	Abandoned	11/11/2014	33 - 43	Vinyl chloride	0	U		2	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	2-Hexanone	0	U		10	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Acetone	0	U		50	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Benzene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Carbon disulfide	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Cumene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Ethylbenzene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	m & p-Xylenes	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Methyl acetate	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Methyl ethyl ketone	0	U		50	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Methyl isobutenyl ketone	0	U		10	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	o-Xylene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Tetrachloroethylene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Toluene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Trichloroethylene	0	U		5	ug/L
MW-15	MW-15_5/27/15_NM	Permanent	Abandoned	5/27/2015	33 - 43	Vinyl chloride	0	U		2	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	2-Hexanone	0	U		10	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Acetone	0	U		50	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Benzene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Carbon disulfide	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Cumene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Ethylbenzene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	m & p-Xylenes	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Methyl acetate	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Methyl ethyl ketone	0	U		50	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Methyl isobutenyl ketone	0	U		10	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	o-Xylene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Tetrachloroethylene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Toluene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Trichloroethylene	0	U		5	ug/L
MW-15	MW-15_11/10/15_NM	Permanent	Abandoned	11/10/2015	33 - 43	Vinyl chloride	0	U		2	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	2-Hexanone	0	U		10	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Acetone	0	U		50	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Benzene	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Carbon disulfide	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	cis-1,2-Dichloroethylene	440				ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Cumene	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Ethylbenzene	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	m & p-Xylenes	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Methyl acetate	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Methyl ethyl ketone	0	U		50	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	o-Xylene	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Tetrachloroethylene	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Toluene	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Trichloroethylene	0	U		5	ug/L
MW-16	MW-16_11/19/13_NM	Permanent	Abandoned	11/19/2013	6.1 - 11.1	Vinyl chloride	12				ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	2-Hexanone	0	U		10	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Acetone	0	U		50	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Benzene	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Carbon disulfide	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	cis-1,2-Dichloroethylene	230				ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Cumene	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Ethylbenzene	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	m & p-Xylenes	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Methyl acetate	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Methyl ethyl ketone	0	U		50	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	o-Xylene	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Tetrachloroethylene	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Toluene	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Trichloroethylene	0	U		5	ug/L
MW-16	MW-16_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.1 - 11.1	Vinyl chloride	13				ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	2-Hexanone	0	U		10	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Acetone	0	U		50	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Benzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Carbon disulfide	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	cis-1,2-Dichloroethylene	100				ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Cumene	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Ethylbenzene	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	m & p-Xylenes	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Methyl acetate	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Methyl ethyl ketone	0	U		50	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	o-Xylene	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Tetrachloroethylene	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Toluene	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Trichloroethylene	0	U		5	ug/L
MW-16	MW-16_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Vinyl chloride	6.5				ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	2-Hexanone	0	U		10	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Acetone	0	U		50	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Benzene	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Carbon disulfide	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	cis-1,2-Dichloroethylene	150				ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Cumene	5.1				ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Ethylbenzene	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	m & p-Xylenes	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Methyl acetate	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Methyl ethyl ketone	0	U		50	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	o-Xylene	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Tetrachloroethylene	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Toluene	5.6				ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Trichloroethylene	0	U		5	ug/L
MW-16	MW-16_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Vinyl chloride	11				ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	2-Hexanone	0	U		10	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Acetone	0	U		50	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Benzene	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Cumene	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Methyl acetate	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	o-Xylene	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Toluene	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-17	MW-17_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	2-Hexanone	0	U		10	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Acetone	0	U		50	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Benzene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Cumene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Methyl acetate	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	o-Xylene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Toluene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-17	MW-17_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	2-Hexanone	0	U		10	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Acetone	0	U		50	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Benzene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Cumene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Methyl acetate	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	o-Xylene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Toluene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-17	MW-17_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	2-Hexanone	0	U		10	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Acetone	0	U		50	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Benzene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Cumene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Methyl acetate	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Methyl ethyl ketone	0	U		50	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	o-Xylene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Toluene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-17	MW-17_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	2-Hexanone	0	U		10	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Acetone	0	U		50	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Benzene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Cumene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Methyl acetate	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	o-Xylene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Toluene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-17	MW-17_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	2-Hexanone	0	U		10	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Acetone	0	U		50	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Benzene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Carbon disulfide	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Cumene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Ethylbenzene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	m & p-Xylenes	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Methyl acetate	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Methyl ethyl ketone	0	U		50	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	o-Xylene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Tetrachloroethylene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Toluene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Trichloroethylene	0	U		5	ug/L
MW-18	MW-18_5/20/14_NM	Permanent	Abandoned	5/20/2014	6.1 - 11.1	Vinyl chloride	0	U		2	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	2-Hexanone	0	U		10	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Acetone	0	U		50	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Benzene	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Carbon disulfide	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	cis-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Cumene	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Ethylbenzene	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	m & p-Xylenes	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Methyl acetate	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Methyl ethyl ketone	0	U		50	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	o-Xylene	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Tetrachloroethylene	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Toluene	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Trichloroethylene	0	U		5	ug/L
MW-18	MW-18_11/11/14_NM	Permanent	Abandoned	11/11/2014	6.1 - 11.1	Vinyl chloride	0	U		2	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	2-Hexanone	0	U		10	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Acetone	0	U		50	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Benzene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Carbon disulfide	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Cumene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Ethylbenzene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	m & p-Xylenes	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Methyl acetate	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Methyl ethyl ketone	0	U		50	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	o-Xylene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Tetrachloroethylene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Toluene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Trichloroethylene	0	U		5	ug/L
MW-18	MW-18_5/27/15_NM	Permanent	Abandoned	5/27/2015	6.1 - 11.1	Vinyl chloride	0	U		2	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	2-Hexanone	0	U		10	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Acetone	0	U		50	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Benzene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Carbon disulfide	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Cumene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Ethylbenzene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	m & p-Xylenes	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Methyl acetate	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Methyl ethyl ketone	0	U		50	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	o-Xylene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Tetrachloroethylene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Toluene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Trichloroethylene	0	U		5	ug/L
MW-18	MW-18_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.1 - 11.1	Vinyl chloride	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-19	MW-19_11/19/13_NM	Permanent	Abandoned	11/19/2013	5.7 - 10.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_11/19/13_NM	Permanent	Abandoned	11/19/2013	5.7 - 10.7	Toluene	0	U		5	ug/L
MW-19	MW-19_11/19/13_NM	Permanent	Abandoned	11/19/2013	5.7 - 10.7	Vinyl chloride	0	U		2	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	2-Hexanone	0	U		10	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Acetone	0	U		50	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Benzene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Carbon disulfide	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Cumene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Ethylbenzene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	m & p-Xylenes	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Methyl acetate	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Methyl ethyl ketone	0	U		50	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	o-Xylene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Tetrachloroethylene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Toluene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Trichloroethylene	0	U		5	ug/L
MW-19	MW-19_5/20/14_NM	Permanent	Abandoned	5/20/2014	5.7 - 10.7	Vinyl chloride	0	U		2	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	2-Hexanone	0	U		10	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Acetone	0	U		50	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Benzene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Carbon disulfide	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Cumene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Ethylbenzene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	m & p-Xylenes	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Methyl acetate	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Methyl ethyl ketone	0	U		50	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	o-Xylene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Tetrachloroethylene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Toluene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Trichloroethylene	0	U		5	ug/L
MW-19	MW-19_11/11/14_NM	Permanent	Abandoned	11/11/2014	5.7 - 10.7	Vinyl chloride	0	U		2	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	2-Hexanone	0	U		10	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Acetone	0	U		50	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Benzene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Carbon disulfide	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Cumene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Ethylbenzene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	m & p-Xylenes	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Methyl ethyl ketone	0	U		50	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	o-Xylene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Tetrachloroethylene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Toluene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Trichloroethylene	0	U		5	ug/L
MW-19	MW-19_5/27/15_NM	Permanent	Abandoned	5/27/2015	5.7 - 10.7	Vinyl chloride	0	U		2	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	2-Hexanone	0	U		10	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Acetone	0	U		50	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Benzene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Carbon disulfide	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Cumene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Ethylbenzene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	m & p-Xylenes	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Methyl acetate	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Methyl ethyl ketone	0	U		50	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	o-Xylene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Tetrachloroethylene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Toluene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Trichloroethylene	0	U		5	ug/L
MW-19	MW-19_11/10/15_NM	Permanent	Abandoned	11/10/2015	5.7 - 10.7	Vinyl chloride	0	U		2	ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Benzene	0	U		5	ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Carbon disulfide	63				ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Ethylbenzene	0	U		5	ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Tetrachloroethylene	0	U		5	ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Toluene	0	U		5	ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Trichloroethylene	0	U		5	ug/L
MW-2	MW-2_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Vinyl chloride	0	U		10	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	2-Hexanone	0	U		20	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Acetone	0	U		50	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Benzene	0	U		1	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Carbon disulfide	0	U		50	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Ethylbenzene	0	U		1	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	m & p-Xylenes	0	U		2	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl ethyl ketone	0	U		20	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl isobutenyl ketone	0	U		20	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	o-Xylene	0	U		1	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Tetrachloroethylene	0	U		5	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Toluene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Trichloroethylene	0	U		5	ug/L
MW-2	MW-2_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Vinyl chloride	0	U		1	ug/L
MW-20	MW-20_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Toluene	0	U		5	ug/L
MW-20	MW-20_11/19/13_NM	Permanent	Active	11/19/2013	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	2-Hexanone	0	U		10	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Acetone	0	U		50	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Benzene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Cumene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Methyl acetate	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	o-Xylene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Toluene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-20	MW-20_5/20/14_NM	Permanent	Active	5/20/2014	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	2-Hexanone	0	U		10	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Acetone	0	U		50	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Benzene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Cumene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Methyl acetate	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	o-Xylene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Toluene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-20	MW-20_11/11/14_NM	Permanent	Active	11/11/2014	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	2-Hexanone	0	U		10	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Acetone	0	U		50	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Benzene	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Cumene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Methyl acetate	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	o-Xylene	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Toluene	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-20	MW-20_5/27/15_NM	Permanent	Active	5/27/2015	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	2-Hexanone	0	U		10	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Acetone	0	U		50	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Benzene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Carbon disulfide	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Cumene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Ethylbenzene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	m & p-Xylenes	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Methyl acetate	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	o-Xylene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Tetrachloroethylene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Toluene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Trichloroethylene	0	U		5	ug/L
MW-20	MW-20_11/10/15_NM	Permanent	Active	11/10/2015	2 - 7	Vinyl chloride	0	U		2	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	2-Hexanone	19				ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Acetone	0	U		50	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Benzene	130				ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Bromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Cumene	7.7				ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	m & p-Xylenes	150				ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Methyl isobutenyl ketone	130				ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	o-Xylene	15				ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	pH	6.43				SU
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Styrene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Toluene	250				ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-21	MW-21_1/20/15_NM	Permanent	Abandoned	1/20/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1-Dichloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1-Dichloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1-Dichloroethene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,1-Dichloroethene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dibromoethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dibromoethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dichloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dichloroethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dichloropropane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,2-Dichloropropane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	2-Hexanone	0	U		10	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	2-Hexanone	0	U		10	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Acetone	0	U		50	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Acetone	0	U		50	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Benzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Benzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Bromoform	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Bromoform	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Bromomethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Bromomethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Carbon disulfide	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Carbon disulfide	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Carbon tetrachloride	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Carbon tetrachloride	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Chlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Chlorobenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Chloroethane	0	U		10	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Chloroethane	0	U		10	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Chloroform	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Chloroform	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Chloromethane	0	U		10	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Chloromethane	0	U		10	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Cumene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Cumene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Cyclohexane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Cyclohexane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Dibromochloromethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Dibromochloromethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Dichlorobromomethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Dichlorobromomethane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Ethylbenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Ethylbenzene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	m & p-Xylenes	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	m & p-Xylenes	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methyl acetate	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methyl acetate	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methyl ethyl ketone	0	U		50	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methyl ethyl ketone	0	U		50	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methyl isobutenyl ketone	0	U		10	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methyl isobutenyl ketone	0	U		10	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methylcyclohexane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methylcyclohexane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methylene chloride	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Methylene chloride	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	o-Xylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	o-Xylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	pH	7.11				SU
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Styrene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Styrene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Tetrachloroethylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Tetrachloroethylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Toluene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Toluene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Trichloroethylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Trichloroethylene	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Trichlorofluoromethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Trichlorofluoromethane	0	U		5	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-22	MW-22_1/20/15_DUP	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Vinyl chloride	0	U		2	ug/L
MW-22	MW-22_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.24 - 13.24	Vinyl chloride	0	U		2	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,1-Dichloroethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,1-Dichloroethene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,2-Dibromoethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,2-Dichloroethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,2-Dichloropropane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	2-Hexanone	0	U		10	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Acetone	0	U		50	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Benzene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Bromoform	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Bromomethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Carbon disulfide	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Carbon tetrachloride	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Chlorobenzene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Chloroethane	0	U		10	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Chloroform	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Chloromethane	0	U		10	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Cumene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Cyclohexane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Dibromochloromethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Dichlorobromomethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Ethylbenzene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	m & p-Xylenes	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Methyl acetate	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Methyl ethyl ketone	0	U		50	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Methyl isobutenyl ketone	0	U		10	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Methylcyclohexane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Methylene chloride	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	o-Xylene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Styrene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Tetrachloroethylene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Toluene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Trichloroethylene	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Trichlorofluoromethane	0	U		5	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-22	MW-22_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.24 - 13.24	Vinyl chloride	0	U		2	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,1-Dichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,1-Dichloroethene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,2-Dibromoethane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,2-Dichloroethane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,2-Dichloropropane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	2-Hexanone	0	U		10	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Acetone	0	U		50	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Benzene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Bromoform	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Bromomethane	0	U	UJ	5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Carbon disulfide	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Carbon tetrachloride	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Chlorobenzene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Chloroethane	0	U		10	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Chloroform	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Chloromethane	0	U		10	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Cumene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Cyclohexane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Dibromochloromethane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Dichlorobromomethane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Ethylbenzene	0	U	UJ	5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	m & p-Xylenes	0	U	UJ	5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Methyl acetate	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Methyl ethyl ketone	0	U		50	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Methyl isobutenyl ketone	0	U		10	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Methylcyclohexane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Methylene chloride	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	o-Xylene	0	U	UJ	5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Styrene	0	U	UJ	5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Tetrachloroethylene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Toluene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Trichloroethylene	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Trichlorofluoromethane	0	U		5	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-22	MW-22-032517	Permanent	Abandoned	3/25/2017	3.24 - 13.24	Vinyl chloride	0	U		2	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,1-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,1-Dichloroethene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,2-Dibromoethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,2-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,2-Dichloropropane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	2-Hexanone	0	U		5	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Acetone	0	U		5	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Benzene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Bromoform	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Bromomethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Carbon disulfide	0	U		5	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Carbon tetrachloride	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Chlorobenzene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Chloroethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Chloroform	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Chloromethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Cumene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Cyclohexane	0	U		5	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Dibromochloromethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Dichlorobromomethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Ethylbenzene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	m & p-Xylenes	0	U		2	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Methyl acetate	0	U		5	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Methyl ethyl ketone	0	U		5	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Methylcyclohexane	0	U		5	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Methylene Chloride	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	o-Xylene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Styrene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Tetrachloroethylene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Toluene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Trichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Trichlorofluoromethane	0	U		1	ug/L
MW-22	MW-22-092917	Permanent	Abandoned	9/29/2017	3.24 - 13.24	Vinyl chloride	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,1-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,1-Dichloroethene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,2-Dibromoethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,2-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,2-Dichloropropane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	2-Hexanone	0	U		5	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Acetone	0	U		5	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Benzene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Bromoform	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Bromomethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Carbon disulfide	0	U		5	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Carbon tetrachloride	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Chlorobenzene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Chloroethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Chloroform	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Chloromethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Cumene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Cyclohexane	0	U		5	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Dibromochloromethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Dichlorobromomethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Ethylbenzene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	m & p-Xylenes	0	U		2	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Methyl acetate	0	U		5	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Methyl ethyl ketone	0	U		5	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Methylcyclohexane	0	U		5	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Methylene Chloride	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	o-Xylene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Styrene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Tetrachloroethylene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Toluene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Trichloroethylene	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Trichlorofluoromethane	0	U		1	ug/L
MW-22	MW-22-120117	Permanent	Abandoned	12/1/2017	3.24 - 13.24	Vinyl chloride	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,1-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,1-Dichloroethene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,2-Dibromoethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,2-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,2-Dichloropropane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	2-Hexanone	0	U		5	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Acetone	0	U		25	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Benzene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Bromodichloromethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Bromoform	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Bromomethane	0	U		2	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Carbon disulfide	0	U		10	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Carbon tetrachloride	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Chlorobenzene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Chloroethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Chloroform	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Chloromethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Cumene	0	U		10	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Cyclohexane	0	U		10	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Dibromochloromethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Ethylbenzene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	m & p-Xylenes	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Methyl acetate	0	U		10	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Methyl ethyl ketone	0	U		5	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Methylcyclohexane	0	U		10	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Methylene Chloride	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	o-Xylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Styrene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Tetrachloroethylene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Toluene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Trichloroethylene	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Trichlorofluoromethane	0	U		1	ug/L
MW-22	MW-22-022318	Permanent	Abandoned	2/23/2018	3.24 - 13.24	Vinyl chloride	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,1-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,1-Dichloroethene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,2-Dibromoethane	0	U		2	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,2-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,2-Dichloropropane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	2-Hexanone	0	U		5	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Acetone	0	U		25	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Benzene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Bromoform	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Bromomethane	0	U		2	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Carbon disulfide	0	U		10	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Carbon tetrachloride	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Chlorobenzene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Chloroethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Chloroform	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Chloromethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Cumene	0	U		10	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Cyclohexane	0	U		10	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Dibromochloromethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Dichlorobromomethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Ethylbenzene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	m & p-Xylenes	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Methyl acetate	0	U		10	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Methyl ethyl ketone	0	U		5	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Methylcyclohexane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Methylene Chloride	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	o-Xylene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Styrene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Tetrachloroethylene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Toluene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Trichloroethylene	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Trichlorofluoromethane	0	U		1	ug/L
MW-22	MW-22-051118	Permanent	Abandoned	5/11/2018	3.24 - 13.24	Vinyl chloride	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,1-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,1-Dichloroethene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,2-Dibromoethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,2-Dichloroethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,2-Dichloropropane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	2-Hexanone	0	U		5	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Acetone	0	U		25	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Benzene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Bromoform	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Bromomethane	0	U		2	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Carbon tetrachloride	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Chlorobenzene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Chloroethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Chloroform	0	U		5	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Chloromethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Cumene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Cyclohexane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Dibromochloromethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Dichlorobromomethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Ethylbenzene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Methyl acetate	0	U		10	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Methyl ethyl ketone	0	U		5	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Methyl isobutenyl ketone	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Methylcyclohexane	0	U		10	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Methylene Chloride	0	U		5	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Styrene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Tetrachloroethylene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Toluene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Trichloroethylene	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Trichlorofluoromethane	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Vinyl acetate	0	U		2	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Vinyl chloride	0	U		1	ug/L
MW-22	MW-22-062520	Permanent	Abandoned	6/25/2020	3.24 - 13.24	Xylene (Total)	0	U		1	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,1-Trichloroethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2-Trichloroethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromoethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichlorobenzene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloroethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloropropane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,3-Dichlorobenzene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,4-Dichlorobenzene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	2-Hexanone	0	U		10	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Acetone	0	U		50	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Benzene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromoform	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromomethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon disulfide	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon tetrachloride	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chlorobenzene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroethane	0	U		10	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroform	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloromethane	0	U		10	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cumene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cyclohexane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dibromochloromethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorobromomethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorodifluoromethane	0	U		10	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Ethylbenzene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	m & p-Xylenes	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl acetate	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl ethyl ketone	0	U		50	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylcyclohexane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylene chloride	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	o-Xylene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	pH	6.01				SU
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Styrene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Tetrachloroethylene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Toluene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichloroethylene	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorofluoromethane	0	U		5	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorotrifluoroethane	0	U		10	ug/L
MW-23	MW-23_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Vinyl chloride	0	U		2	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,1-Trichloroethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2-Trichloroethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromoethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichlorobenzene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloroethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloropropane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,3-Dichlorobenzene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,4-Dichlorobenzene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	2-Hexanone	0	U		10	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Acetone	0	U		50	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Benzene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromoform	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromomethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon disulfide	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon tetrachloride	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chlorobenzene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroethane	0	U		10	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroform	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloromethane	0	U		10	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cumene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cyclohexane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dibromochloromethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorobromomethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorodifluoromethane	0	U		10	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Ethylbenzene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	m & p-Xylenes	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl acetate	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl ethyl ketone	0	U		50	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylcyclohexane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylene chloride	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	o-Xylene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	pH	5				SU
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Styrene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Tetrachloroethylene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Toluene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichloroethylene	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorofluoromethane	0	U		5	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorotrifluoroethane	0	U		10	ug/L
MW-24	MW-24_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Vinyl chloride	0	U		2	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,1-Trichloroethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2-Trichloroethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromoethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichlorobenzene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloroethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloropropane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,3-Dichlorobenzene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,4-Dichlorobenzene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	2-Hexanone	0	U		10	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Acetone	0	U		50	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Benzene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromoform	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromomethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon disulfide	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon tetrachloride	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chlorobenzene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroethane	0	U		10	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroform	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloromethane	0	U		10	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cumene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cyclohexane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dibromochloromethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorobromomethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorodifluoromethane	0	U		10	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Ethylbenzene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	m & p-Xylenes	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl acetate	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl ethyl ketone	0	U		50	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylcyclohexane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylene chloride	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	o-Xylene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	pH	4.81				SU
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Styrene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Tetrachloroethylene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Toluene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichloroethylene	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorofluoromethane	0	U		5	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorotrifluoroethane	0	U		10	ug/L
MW-25	MW-25_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Vinyl chloride	0	U		2	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,1-Trichloroethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2-Trichloroethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromoethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichlorobenzene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloroethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloropropane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,3-Dichlorobenzene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,4-Dichlorobenzene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	2-Hexanone	0	U		10	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Acetone	0	U		50	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Benzene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromoform	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromomethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon disulfide	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon tetrachloride	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroethane	0	U		10	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroform	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloromethane	0	U		10	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cumene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cyclohexane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dibromochloromethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorobromomethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorodifluoromethane	0	U		10	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Ethylbenzene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	m & p-Xylenes	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl acetate	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl ethyl ketone	0	U		50	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylcyclohexane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylene chloride	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	o-Xylene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	pH	5.27				SU
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Styrene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Tetrachloroethylene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Toluene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichloroethylene	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorofluoromethane	0	U		5	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorotrifluoroethane	0	U		10	ug/L
MW-26	MW-26_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Vinyl chloride	0	U		2	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,1,1-Trichloroethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,1,2-Trichloroethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,1-Dichloroethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,1-Dichloroethene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,2-Dibromoethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,2-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,2-Dichloroethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,2-Dichloropropane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,3-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	1,4-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	2-Hexanone	0	U		10	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Acetone	0	U		50	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Benzene	7.6				ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Bromoform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Bromomethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Carbon disulfide	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Carbon tetrachloride	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Chlorobenzene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Chloroethane	0	U		10	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Chloroform	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Chloromethane	0	U		10	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Cumene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Cyclohexane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Dibromochloromethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Dichlorobromomethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Dichlorodifluoromethane	0	U		10	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Ethylbenzene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	m & p-Xylenes	29				ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Methyl acetate	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Methyl ethyl ketone	0	U		50	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Methyl isobutenyl ketone	0	U		10	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Methylcyclohexane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Methylene chloride	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	o-Xylene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	pH	6.87				SU
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Styrene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Tetrachloroethylene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Toluene	20				ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Trichloroethylene	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Trichlorofluoromethane	0	U		5	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Trichlorotrifluoroethane	0	U		10	ug/L
MW-27	MW-27_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.42 - 13.42	Vinyl chloride	0	U		2	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,1,1-Trichloroethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,1,2-Trichloroethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,1-Dichloroethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,1-Dichloroethene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,2-Dibromoethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,2-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,2-Dichloroethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,2-Dichloropropane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,3-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	1,4-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	2-Hexanone	0	U		10	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Acetone	0	U		50	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Benzene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Bromoform	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Bromomethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Carbon disulfide	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Carbon tetrachloride	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Chlorobenzene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Chloroethane	0	U		10	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Chloroform	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Chloromethane	0	U		10	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Cumene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Cyclohexane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Dibromochloromethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Dichlorobromomethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Dichlorodifluoromethane	0	U		10	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Ethylbenzene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	m & p-Xylenes	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Methyl acetate	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Methyl ethyl ketone	0	U		50	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Methyl isobutenyl ketone	0	U		10	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Methylcyclohexane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Methylene chloride	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	o-Xylene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Styrene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Tetrachloroethylene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Toluene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Trichloroethylene	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Trichlorofluoromethane	0	U		5	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Trichlorotrifluoroethane	0	U		10	ug/L
MW-27	MW-27_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.42 - 13.42	Vinyl chloride	0	U		2	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,1,1-Trichloroethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,1,2-Trichloroethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,1-Dichloroethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,1-Dichloroethene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,2-Dibromoethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,2-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,2-Dichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,2-Dichloropropane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,3-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	1,4-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	2-Hexanone	0	U		10	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Acetone	0	U		50	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Benzene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Bromoform	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Bromomethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Carbon disulfide	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Carbon tetrachloride	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Chlorobenzene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Chloroethane	0	U		10	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Chloroform	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Chloromethane	0	U		10	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Cumene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Cyclohexane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Dibromochloromethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Dichlorobromomethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Dichlorodifluoromethane	0	U		10	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Ethylbenzene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	m & p-Xylenes	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Methyl acetate	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Methyl ethyl ketone	0	U		50	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Methyl isobutenyl ketone	15				ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Methylcyclohexane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Methylene chloride	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	o-Xylene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Styrene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Tetrachloroethylene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Toluene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Trichloroethylene	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Trichlorofluoromethane	0	U		5	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Trichlorotrifluoroethane	0	U		10	ug/L
MW-27	MW-27_8/23/16_NM	Permanent	Abandoned	8/23/2016	3.42 - 13.42	Vinyl chloride	0	U		2	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,1,1-Trichloroethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,1,2-Trichloroethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,1-Dichloroethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,1-Dichloroethene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,2-Dibromo-3-chloropropane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,2-Dibromoethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,2-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,2-Dichloroethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,2-Dichloropropane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,3-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	1,4-Dichlorobenzene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	2-Hexanone	0	U		10	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Acetone	46	J		50	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Benzene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Bromoform	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Bromomethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Carbon disulfide	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Carbon tetrachloride	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Chlorobenzene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Chloroethane	0	U		10	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Chloroform	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Chloromethane	0	U		10	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Cumene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Cyclohexane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Dibromochloromethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Dichlorobromomethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Dichlorodifluoromethane	0	U		10	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Ethylbenzene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	m & p-Xylenes	1.9	J		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Methyl acetate	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Methyl ethyl ketone	0	U		50	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Methyl isobutenyl ketone	0	U		10	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Methylcyclohexane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Methylene chloride	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	o-Xylene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Styrene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Tetrachloroethylene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Toluene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Trichloroethylene	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Trichlorofluoromethane	0	U		5	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Trichlorotrifluoroethane	0	U		10	ug/L
MW-27	MW-27_12/14/16_NM	Permanent	Abandoned	12/14/2016	3.42 - 13.42	Vinyl chloride	0	U		2	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,1,1-Trichloroethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,1,2-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,1-Dichloroethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,1-Dichloroethene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,2-Dibromoethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,2-Dichlorobenzene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,2-Dichloroethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,2-Dichloropropane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,3-Dichlorobenzene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	1,4-Dichlorobenzene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	2-Hexanone	0	U		5	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Acetone	32.3			5	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Benzene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Bromoform	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Bromomethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Carbon disulfide	0	U		5	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Carbon tetrachloride	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Chlorobenzene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Chloroethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Chloroform	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Chloromethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Cumene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Cyclohexane	0	U		5	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Dibromochloromethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Dichlorobromomethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Dichlorodifluoromethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Ethylbenzene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	m & p-Xylenes	0	U		2	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Methyl acetate	0	U		5	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Methyl ethyl ketone	0	U		5	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Methyl isobutenyl ketone	0	U		5	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Methylcyclohexane	0	U		5	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Methylene Chloride	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	o-Xylene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Styrene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Tetrachloroethylene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Toluene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Trichloroethylene	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Trichlorofluoromethane	0	U		1	ug/L
MW-27	MW-27-120117	Permanent	Abandoned	12/1/2017	3.42 - 13.42	Vinyl chloride	0	U		1	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,1,1-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,1-Dichloroethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,1-Dichloroethene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,2-Dibromoethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,2-Dichloroethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,2-Dichloropropane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	2-Hexanone	0	U		10	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Acetone	180				ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Benzene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Bromoform	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Bromomethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Carbon disulfide	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Carbon tetrachloride	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Chlorobenzene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Chloroethane	0	U		10	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Chloroform	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Chloromethane	0	U		10	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Cumene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Cyclohexane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Dibromochloromethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Dichlorobromomethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Ethylbenzene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	m & p-Xylenes	120				ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Methyl acetate	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Methyl ethyl ketone	0	U		50	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Methyl isobutenyl ketone	30				ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Methylcyclohexane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Methylene chloride	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	o-Xylene	11				ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	pH	6.39				SU
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Styrene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Tetrachloroethylene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Toluene	95				ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Trichlorofluoromethane	0	U		5	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-28	MW-28_1/20/15_NM	Permanent	Abandoned	1/20/2015	3.2 - 13.2	Vinyl chloride	0	U		2	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,1-Dichloroethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,1-Dichloroethene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,2-Dibromoethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,2-Dichloroethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,2-Dichloropropane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	2-Hexanone	14				ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Acetone	79				ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Benzene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Bromoform	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Bromomethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Carbon disulfide	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Carbon tetrachloride	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Chlorobenzene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Chloroethane	0	U		10	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Chloroform	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Chloromethane	0	U		10	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Cumene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Cyclohexane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Dibromochloromethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Dichlorobromomethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Ethylbenzene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	m & p-Xylenes	87				ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Methyl acetate	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Methyl ethyl ketone	0	U		50	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Methyl isobutenyl ketone	98				ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Methylcyclohexane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Methylene chloride	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	o-Xylene	7.9				ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Styrene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Tetrachloroethylene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Toluene	75				ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Trichloroethylene	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Trichlorofluoromethane	0	U		5	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-28	MW-28_7/27/16_NM	Permanent	Abandoned	7/27/2016	3.2 - 13.2	Vinyl chloride	0	U		2	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,1-Trichloroethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1,2-Trichloroethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,1-Dichloroethene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dibromoethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichlorobenzene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloroethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,2-Dichloropropane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,3-Dichlorobenzene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	1,4-Dichlorobenzene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	2-Hexanone	0	U		10	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Acetone	0	U		50	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Benzene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromoform	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Bromomethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon disulfide	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Carbon tetrachloride	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chlorobenzene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroethane	0	U		10	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloroform	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Chloromethane	0	U		10	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cumene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Cyclohexane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dibromochloromethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorobromomethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Dichlorodifluoromethane	0	U		10	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Ethylbenzene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	m & p-Xylenes	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl acetate	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl ethyl ketone	0	U		50	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylcyclohexane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Methylene chloride	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	o-Xylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	pH	4.63				SU
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Styrene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Tetrachloroethylene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Toluene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichloroethylene	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorofluoromethane	0	U		5	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Trichlorotrifluoroethane	0	U		10	ug/L
MW-29	MW-29_1/20/15_NM	Permanent	Abandoned	1/20/2015	-	Vinyl chloride	0	U		2	ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Benzene	0	U		5	ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Carbon disulfide	26				ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Ethylbenzene	0	U		5	ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Tetrachloroethylene	0	U		5	ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Toluene	0	U		5	ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Trichloroethylene	0	U		5	ug/L
MW-3	MW-3_5/20/92_NM	Permanent	Abandoned	5/20/1992	-	Vinyl chloride	0	U		10	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	2-Hexanone	0	U		200	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Acetone	0	U		500	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Benzene	0	U		10	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Carbon disulfide	0	U		500	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Ethylbenzene	0	U		10	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	m & p-Xylenes	0	U		20	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl ethyl ketone	0	U		200	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl isobutenyl ketone	0	U		200	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	o-Xylene	0	U		10	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Tetrachloroethylene	0	U		5	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Toluene	0	U		10	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Trichloroethylene	0	U		5	ug/L
MW-3	MW-3_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Vinyl chloride	0	U		10	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Acetone	0	U		50	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Benzene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Cumene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	m & p-Xylenes	7.6				ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	pH	6.54				SU
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Styrene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Toluene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-30	MW-30_3/20/15_NM	Permanent	Active	3/20/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	2-Hexanone	13				ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Acetone	0	U		50	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Benzene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Cumene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	m & p-Xylenes	5.5				ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Styrene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Toluene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-30	MW-30_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,2,4-Trichlorobenzene	0	U	UJ	5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	2-Hexanone	0	U		10	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Acetone	46	J		50	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Benzene	14		J	5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Bromoform	0	U	UJ	5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Bromomethane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Cumene	6.2			5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Dibromochloromethane	0	U	UJ	5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Ethylbenzene	2.5	J		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	m & p-Xylenes	26			5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	o-Xylene	3.8	J		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Styrene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Toluene	9.4			5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-30	MW-30-032417	Permanent	Active	3/24/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	2-Hexanone	0	U	UJ	10	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Acetone	72		J	50	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Benzene	1.5	J		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Bromoform	0	U	UJ	5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Bromomethane	0	U	UJ	5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Cumene	3.4	J		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Dibromochloromethane	0	U	UJ	5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Ethylbenzene	0.74	J		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	m & p-Xylenes	13			5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Methyl acetate	0	U	UJ	5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Methyl isobutenyl ketone	3.1	J		10	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Methylcyclohexane	1.1	J		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	o-Xylene	2	J		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Styrene	0	U	UJ	5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Toluene	5	J		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-061317	Permanent	Active	6/13/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Acetone	66		J+	5	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Benzene	1.7		J+	1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Cumene	4		J+	1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Ethylbenzene	1.1		J+	1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	m & p-Xylenes	16.2		J+	2	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	o-Xylene	2.1		J+	1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Styrene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Toluene	2.8		J+	1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-30	MW-30-092917	Permanent	Active	9/29/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Acetone	42.6			5	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Benzene	2.2			1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Cumene	2.6			1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	m & p-Xylenes	10.8			2	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	o-Xylene	1.7			1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Styrene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Toluene	3			1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-30	MW-30-120117	Permanent	Active	12/1/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Acetone	25.5		J	25	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Benzene	3.1			1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Bromodichloromethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Cumene	0	U		10	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	m & p-Xylenes	19.7			1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Methylene Chloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	o-Xylene	4.3			1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Styrene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Toluene	3.7			1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-30	MW-30-022318	Permanent	Active	2/23/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	2-Hexanone	23			5	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Acetone	126			25	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Benzene	5.4			1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Cumene	0	U		10	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Ethylbenzene	1.3			1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	m & p-Xylenes	25.4			1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Methyl ethyl ketone	6.7			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Methyl isobutenyl ketone	6.9			5	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Oil and Grease	0	U		5	mg/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	o-Xylene	4			1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Styrene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Toluene	14.4			1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-30	MW-30-051118	Permanent	Active	5/11/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Acetone	75.5		J	25	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Benzene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Cumene	0	U		10	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	m & p-Xylenes	14.1			1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Methylene Chloride	1.1			1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	o-Xylene	2.8			1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Styrene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Toluene	4.3			1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-30	MW-30-080318	Permanent	Active	8/3/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	2-Hexanone	1.4	J		5	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Acetone	63.7			25	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Benzene	1.1			1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Bromoform	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Bromomethane	0	U		2	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Chloroethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Chloroform	0	U		5	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Chloromethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Cumene	2.4			1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Cyclohexane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Dibromochloromethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Ethylbenzene	0.29	J		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Methyl acetate	0	U		10	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Methyl ethyl ketone	12.3			5	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Methylcyclohexane	2.5	J		10	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Styrene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Toluene	3.5			1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Vinyl acetate	0	U		2	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-30	MW-30-062520	Permanent	Active	6/25/2020	2 - 12	Xylene (Total)	11.3			1	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,1,1-Trichloroethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,1,2-Trichloroethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,1-Dichloroethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,1-Dichloroethene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,2-Dibromoethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,2-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,2-Dichloroethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,2-Dichloropropane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,3-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	1,4-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	2-Hexanone	0	U		10	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Acetone	0	U		50	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Benzene	5.4				ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Bromoform	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Bromomethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Carbon disulfide	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Carbon tetrachloride	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Chlorobenzene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Chloroethane	0	U		10	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Chloroform	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Chloromethane	0	U		10	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Cumene	27				ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Cyclohexane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Dibromochloromethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Dichlorobromomethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Dichlorodifluoromethane	0	U		10	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Ethylbenzene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	m & p-Xylenes	39				ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Methyl acetate	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Methyl ethyl ketone	0	U		50	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Methyl isobutenyl ketone	0	U		10	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Methylcyclohexane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Methylene chloride	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	o-Xylene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	pH	6.02				SU
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Styrene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Tetrachloroethylene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Toluene	14				ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Trichloroethylene	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Trichlorofluoromethane	0	U		5	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31_3/20/15_NM	Permanent	Active	3/20/2015	5.08 - 15.08	Vinyl chloride	0	U		2	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,1,1-Trichloroethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,1,2-Trichloroethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,1-Dichloroethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,1-Dichloroethene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,2-Dibromoethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,2-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,2-Dichloroethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,2-Dichloropropane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,3-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	1,4-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	2-Hexanone	130				ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Acetone	86				ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Benzene	20				ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Bromoform	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Bromomethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Carbon disulfide	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Carbon tetrachloride	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Chlorobenzene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Chloroethane	0	U		10	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Chloroform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Chloromethane	0	U		10	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Cumene	16				ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Cyclohexane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Dibromochloromethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Dichlorobromomethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Dichlorodifluoromethane	0	U		10	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Ethylbenzene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	m & p-Xylenes	46				ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Methyl acetate	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Methyl ethyl ketone	0	U		50	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Methyl isobutenyl ketone	92				ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Methylcyclohexane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Methylene chloride	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	o-Xylene	5.1				ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Styrene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Tetrachloroethylene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Toluene	51				ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Trichloroethylene	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Trichlorofluoromethane	0	U		5	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31_7/27/16_NM	Permanent	Active	7/27/2016	5.08 - 15.08	Vinyl chloride	0	U		2	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,1,1-Trichloroethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,1,2-Trichloroethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,1-Dichloroethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,1-Dichloroethene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,2-Dibromoethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,2-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,2-Dichloroethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,2-Dichloropropane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,3-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	1,4-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	2-Hexanone	150				ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Acetone	0	U		50	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Benzene	22				ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Bromoform	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Bromomethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Carbon disulfide	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Chlorobenzene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Chloroethane	0	U		10	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Chloroform	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Chloromethane	0	U		10	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Cumene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Cyclohexane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Dibromochloromethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Dichlorobromomethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Dichlorodifluoromethane	0	U		10	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Ethylbenzene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	m & p-Xylenes	46				ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Methyl acetate	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Methyl ethyl ketone	0	U		50	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Methyl isobutenyl ketone	65				ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Methylcyclohexane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Methylene chloride	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	o-Xylene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Styrene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Tetrachloroethylene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Toluene	51				ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Trichloroethylene	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Trichlorofluoromethane	0	U		5	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31_8/23/16_NM	Permanent	Active	8/23/2016	5.08 - 15.08	Vinyl chloride	0	U		2	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,1,1-Trichloroethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,1,2-Trichloroethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,1-Dichloroethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,1-Dichloroethene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,2-Dibromoethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,2-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,2-Dichloroethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,2-Dichloropropane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,3-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	1,4-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	2-Hexanone	41			10	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Acetone	52			50	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Benzene	4.8	J		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Bromoform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Bromomethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Carbon disulfide	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Carbon tetrachloride	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Chlorobenzene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Chloroethane	0	U		10	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Chloroform	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Chloromethane	0	U		10	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Cumene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Cyclohexane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Dibromochloromethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Dichlorobromomethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Dichlorodifluoromethane	0	U		10	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Ethylbenzene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	m & p-Xylenes	22			5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Methyl acetate	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Methyl ethyl ketone	31	J		50	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Methyl isobutenyl ketone	8.4	J		10	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Methylcyclohexane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Methylene chloride	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	o-Xylene	3.2	J		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Styrene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Tetrachloroethylene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Toluene	12			5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Trichloroethylene	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Trichlorofluoromethane	0	U		5	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31_12/14/16_NM	Permanent	Active	12/14/2016	5.08 - 15.08	Vinyl chloride	0	U		2	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,1,1-Trichloroethane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,1,2-Trichloroethane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,1-Dichloroethane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,1-Dichloroethene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U	UJ	5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,2-Dibromoethane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,2-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,2-Dichloroethane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,2-Dichloropropane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,3-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	1,4-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	2-Hexanone	170			10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Acetone	48	J		50	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Benzene	24		J	5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Bromoform	0	U	UJ	5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Bromomethane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Carbon disulfide	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Carbon tetrachloride	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Chlorobenzene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Chloroethane	0	U		10	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Chloroform	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Chloromethane	0	U		10	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Cumene	5.2			5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Cyclohexane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Dibromochloromethane	0	U	UJ	5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Dichlorodifluoromethane	0	U		10	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Ethylbenzene	0.87	J		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	m & p-Xylenes	33			5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Methyl acetate	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Methyl ethyl ketone	0	U		50	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Methyl isobutenyl ketone	100			10	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Methylcyclohexane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Methylene chloride	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	o-Xylene	5.2			5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Styrene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Tetrachloroethylene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Toluene	42			5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Trichloroethylene	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Trichlorofluoromethane	0	U		5	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31-032417	Permanent	Active	3/24/2017	5.08 - 15.08	Vinyl chloride	0	U		2	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,1,1-Trichloroethane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,1,2-Trichloroethane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,1-Dichloroethane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,1-Dichloroethene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,2-Dibromoethane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,2-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,2-Dichloroethane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,2-Dichloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,3-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	1,4-Dichlorobenzene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	2-Hexanone	7.1	J	J	10	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Acetone	22	J	J	50	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Benzene	1	J		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Bromoform	0	U	UJ	5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Bromomethane	0	U	UJ	5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Carbon disulfide	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Carbon tetrachloride	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Chlorobenzene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Chloroethane	0	U		10	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Chloroform	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Chloromethane	0	U		10	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Cumene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Cyclohexane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Dibromochloromethane	0	U	UJ	5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Dichlorobromomethane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Dichlorodifluoromethane	0	U		10	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Ethylbenzene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	m & p-Xylenes	3.5	J		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Methyl acetate	0	U	UJ	5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Methyl ethyl ketone	0	U		50	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Methyl isobutenyl ketone	1.9	J		10	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Methylcyclohexane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Methylene chloride	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	o-Xylene	0.74	J		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Styrene	0	U	UJ	5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Tetrachloroethylene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Toluene	2.5	J		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Trichloroethylene	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Trichlorofluoromethane	0	U		5	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31-061317	Permanent	Active	6/13/2017	5.08 - 15.08	Vinyl chloride	0	U		2	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,2-Dibromoethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	2-Hexanone	0	U		5	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Acetone	15.6		J+	5	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Benzene	3.2		J+	1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Bromomethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Carbon disulfide	0	U		5	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Chloroform	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Cumene	3.2		J+	1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Cyclohexane	0	U		5	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	m & p-Xylenes	13.7		J+	2	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Methyl acetate	0	U		5	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Methylcyclohexane	0	U		5	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Methylene Chloride	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	o-Xylene	1.5		J+	1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Toluene	7.3		J+	1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-092917	Permanent	Active	9/29/2017	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,2-Dibromoethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	2-Hexanone	6.3			5	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Acetone	23.6			5	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Benzene	5.9			1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Bromomethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Carbon disulfide	0	U		5	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Chloroform	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Cumene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Cyclohexane	0	U		5	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	m & p-Xylenes	20.9			2	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Methyl acetate	0	U		5	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Methylcyclohexane	0	U		5	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Methylene Chloride	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	o-Xylene	2.6			1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Toluene	11.3			1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-120117	Permanent	Active	12/1/2017	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,2-Dibromoethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	2-Hexanone	0	U		5	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Acetone	95.4		J	25	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Benzene	3.8		J	1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Bromodichloromethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Carbon disulfide	0	U		10	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Chloroform	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Cumene	0	U		10	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Cyclohexane	0	U		10	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	m & p-Xylenes	29.3		J	1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Methyl ethyl ketone	11.7		J	5	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Methyl isobutenyl ketone	11.5		J	5	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Methylene Chloride	3.4		J	1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	o-Xylene	4.5		J	1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Toluene	12		J	1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-022318	Permanent	Active	2/23/2018	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,2-Dibromoethane	0	U		2	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	2-Hexanone	20.4			5	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Acetone	48.9			25	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Benzene	5.5			1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Carbon disulfide	0	U		10	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Chloroform	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Cumene	0	U		10	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Cyclohexane	0	U		10	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	m & p-Xylenes	14.9			1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Methyl isobutenyl ketone	5.1			5	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Methylene Chloride	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	o-Xylene	2.2			1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Toluene	11			1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-051118	Permanent	Active	5/11/2018	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,2-Dibromoethane	0	U		2	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	2-Hexanone	0	U		5	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Acetone	0	U		25	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Benzene	3			1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Carbon disulfide	0	U		10	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Chloroform	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Cumene	0	U		10	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Cyclohexane	0	U		10	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	m & p-Xylenes	4.7			1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Methylene Chloride	0	U	U	1.2	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	o-Xylene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Styrene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Toluene	3			1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-080318	Permanent	Active	8/3/2018	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dibromoethane	0	U		2	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dibromoethane	0	U		2	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	2-Hexanone	6.7			5	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	2-Hexanone	6.1			5	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Acetone	79			25	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Acetone	85.2			25	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Benzene	8			1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Benzene	7.2			1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Carbon disulfide	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Carbon disulfide	0	U		10	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Chloroform	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Chloroform	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Cumene	0	U		10	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Cumene	0	U		10	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Cyclohexane	0	U		10	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Cyclohexane	0	U		10	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	m & p-Xylenes	28			1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	m & p-Xylenes	26.6			1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Methylene Chloride	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Methylene Chloride	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	o-Xylene	2.9			1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	o-Xylene	2.8			1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Toluene	5			1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Toluene	4.3			1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-042619	Permanent	Active	4/26/2019	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-042619-DUP	Permanent	Active	4/26/2019	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,2-Dibromoethane	0	U		2	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	2-Hexanone	0	U		5	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Acetone	0	U		25	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Benzene	1.8			1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Carbon disulfide	0	U		10	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Chloroform	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Cumene	0	U		10	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Cyclohexane	0	U		10	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	m & p-Xylenes	3.5			1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Methylene Chloride	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	o-Xylene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Toluene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-112219	Permanent	Active	11/22/2019	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,2-Dibromoethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	2-Hexanone	0	U		5	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Acetone	0	U		25	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Benzene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Carbon disulfide	0	U		2	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Chloroform	0	U		5	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Cumene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Cyclohexane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	m & p-Xylenes	0	U		2	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Methylene Chloride	0	U		5	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	o-Xylene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Toluene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-042920	Permanent	Active	4/29/2020	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,2-Dibromoethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	2-Hexanone	1.2	J		5	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Acetone	63.6			25	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Benzene	2.8			1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Chloroform	0	U		5	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Cumene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Cyclohexane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Methyl ethyl ketone	3.9	J		5	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Methylene Chloride	0	U		5	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Toluene	1	J		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Vinyl acetate	0	U		2	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-062520	Permanent	Active	6/25/2020	5.08 - 15.08	Xylene (Total)	0	U		1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,1,1-Trichloroethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,1,2-Trichloroethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,1-Dichloroethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,1-Dichloroethene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,2,4-Trichlorobenzene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,2-Dibromoethane	0.71	J	J	1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,2-Dichlorobenzene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,2-Dichloroethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,2-Dichloropropane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,3-Dichlorobenzene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	1,4-Dichlorobenzene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	2-Hexanone	0			5	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Acetone	0			25	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Benzene	5.2		J	1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Bromoform	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Bromomethane	0			2	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Carbon tetrachloride	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Chlorobenzene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Chloroethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Chloroform	0			5	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Chloromethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	cis-1,2-Dichloroethylene	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	cis-1,3-Dichloropropylene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Cumene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Cyclohexane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Dibromochloromethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Dichlorobromomethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Dichlorodifluoromethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Ethylbenzene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Methyl acetate	0			10	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Methyl ethyl ketone	0			5	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Methyl isobutenyl ketone	0			5	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Methylcyclohexane	0			10	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Methylene Chloride	0			5	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Styrene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Tetrachloroethylene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Toluene	2.1		J	1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	trans-1,2-Dichloroethylene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	trans-1,3-Dichloropropylene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Trichloroethylene	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Trichlorofluoromethane	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Vinyl acetate	0			2	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Vinyl chloride	0			1	ug/L
MW-31	MW-31-102720	Permanent	Active	10/27/2020	5.08 - 15.08	Xylene (Total)	4.9		J	1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,1,1-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,1,2-Trichloroethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,1-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,1-Dichloroethene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,2-Dibromoethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,2-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,2-Dichloroethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,2-Dichloropropane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,3-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	1,4-Dichlorobenzene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	2-Hexanone	0	U		5	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Acetone	12.6	J		25	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Benzene	4.7		J	1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Bromoform	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Bromomethane	0	U		2	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Carbon tetrachloride	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Chlorobenzene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Chloroethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Chloroform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Chloromethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Cumene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Cyclohexane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Dibromochloromethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Dibromomethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Dichlorobromomethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Dichlorodifluoromethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Ethylbenzene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Methyl acetate	0	U		10	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Methyl ethyl ketone	0	U		5	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Methyl isobutenyl ketone	0	U		5	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Methylcyclohexane	0	U		10	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Methylene Chloride	0	U		5	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Styrene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Tetrachloroethylene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Toluene	2.1		J	1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Trichloroethylene	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Trichlorofluoromethane	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Vinyl acetate	0	U		2	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Vinyl chloride	0	U		1	ug/L
MW-31	MW-31-040721	Permanent	Active	4/7/2021	5.08 - 15.08	Xylene (Total)	5.6		J	1	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,1-Dichloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,1-Dichloroethene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,2-Dibromoethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,2-Dichloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,2-Dichloropropane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	2-Hexanone	1800				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Acetone	1100				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Alkalinity, M (pH 4.5) (CaCO3)	189				mg/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Alkalinity, P (pH 8.3) (CaCO3)	0	U		3	mg/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Alkalinity, Total (As CaCO3)	189				mg/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Benzene	940				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Biochemical Oxygen Demand	132				mg/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Bromoform	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Bromomethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Carbon disulfide	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Carbon tetrachloride	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Chemical Oxygen Demand	585				mg/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Chlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Chloroethane	0	U		10	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Chloroform	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Chloromethane	0	U		10	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Cumene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Cyclohexane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Dibromochloromethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Dichlorobromomethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Dichlorodifluoromethane	0	U		10	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Ethylbenzene	9				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Iron (total)	1.34				mg/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Iron, as Ferric (Fe+3)	0	U		0.1	mg/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Iron, as Ferrous (Fe+2)	1.44				mg/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	m & p-Xylenes	240				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Methyl acetate	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Methyl ethyl ketone	850				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Methyl isobutenyl ketone	1800				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Methylcyclohexane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Methylene chloride	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Nitrogen, total Kjeldahl (TKN)	2.1				mg/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	o-Xylene	23				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Styrene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Tetrachloroethylene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Toluene	1000				ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Trichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Trichlorofluoromethane	0	U		5	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34A	MW-34A_7/8/15_NM	Permanent	Abandoned	7/8/2015	1.88 - 11.88	Vinyl chloride	0	U		2	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,1-Dichloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,1-Dichloroethene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,2-Dibromoethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,2-Dichloroethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,2-Dichloropropane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	2-Hexanone	2600				ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Acetone	0	U		50	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Benzene	840				ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Bromoform	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Bromomethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Carbon disulfide	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Carbon tetrachloride	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Chlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Chloroethane	0	U		10	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Chloroform	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Chloromethane	0	U		10	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Cumene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Cyclohexane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Dibromochloromethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Dichlorobromomethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Dichlorodifluoromethane	0	U		10	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Ethylbenzene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	m & p-Xylenes	310				ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Methyl acetate	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Methyl ethyl ketone	0	U		50	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Methyl isobutenyl ketone	2900				ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Methylcyclohexane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Methylene chloride	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	o-Xylene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Styrene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Tetrachloroethylene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Toluene	1000				ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Trichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Trichlorofluoromethane	0	U		5	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34A	MW-34A_7/25/16_NM	Permanent	Abandoned	7/25/2016	1.88 - 11.88	Vinyl chloride	0	U		2	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,1-Dichloroethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,1-Dichloroethene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,2-Dibromoethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,2-Dichloroethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,2-Dichloropropane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	2-Hexanone	2200				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Acetone	1300				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Benzene	760				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Bromoform	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Bromomethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Carbon disulfide	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Carbon tetrachloride	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Chlorobenzene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Chloroethane	0	U		10	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Chloroform	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Chloromethane	0	U		10	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Cumene	6.7				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Cyclohexane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Dibromochloromethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Dichlorobromomethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Dichlorodifluoromethane	0	U		10	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Ethylbenzene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	m & p-Xylenes	250				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Methyl acetate	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Methyl ethyl ketone	360				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Methyl isobutenyl ketone	1700				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Methylcyclohexane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Methylene chloride	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	o-Xylene	27				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Styrene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Tetrachloroethylene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Toluene	710				ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Trichloroethylene	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Trichlorofluoromethane	0	U		5	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34A	MW-34A_8/23/16_NM	Permanent	Abandoned	8/23/2016	1.88 - 11.88	Vinyl chloride	0	U		2	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,1,1-Trichloroethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		500	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,1,2-Trichloroethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,1-Dichloroethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,1-Dichloroethene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,2-Dibromoethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,2-Dichlorobenzene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,2-Dichloroethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,2-Dichloropropane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,3-Dichlorobenzene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	1,4-Dichlorobenzene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	2-Hexanone	4500			1000	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Acetone	4600	J		5000	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Benzene	1600			500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Bromoform	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Bromomethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Carbon disulfide	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Carbon tetrachloride	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Chlorobenzene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Chloroethane	0	U		1000	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Chloroform	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Chloromethane	0	U		1000	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Cumene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Cyclohexane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Dibromochloromethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Dichlorobromomethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Dichlorodifluoromethane	0	U		1000	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Ethylbenzene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	m & p-Xylenes	550			500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Methyl acetate	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Methyl ethyl ketone	710	J		5000	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Methyl isobutenyl ketone	4700			1000	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Methylcyclohexane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Methylene chloride	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	o-Xylene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Styrene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Tetrachloroethylene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Toluene	1500			500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Trichloroethylene	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Trichlorofluoromethane	0	U		500	ug/L
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Trichlorotrifluoroethane	0	U		1000	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A_12/13/16_NM	Permanent	Abandoned	12/13/2016	1.88 - 11.88	Vinyl chloride	0	U		200	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,1,1-Trichloroethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,1,2-Trichloroethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,1-Dichloroethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,1-Dichloroethene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U	UJ	50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,2-Dibromoethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,2-Dichlorobenzene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,2-Dichloroethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,2-Dichloropropane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,3-Dichlorobenzene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	1,4-Dichlorobenzene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	2-Hexanone	2400		J	100	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Acetone	1300			500	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Benzene	1200			50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Bromoform	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Bromomethane	0	U	UJ	50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Carbon disulfide	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Carbon tetrachloride	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Chlorobenzene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Chloroethane	0	U		100	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Chloroform	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Chloromethane	0	U		100	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U	UJ	50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Cumene	18	J		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Cyclohexane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Dibromochloromethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Dichlorobromomethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Dichlorodifluoromethane	0	U		100	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Ethylbenzene	13	J	J	50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	m & p-Xylenes	260		J	50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Methyl acetate	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Methyl ethyl ketone	260	J	J	500	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Methyl isobutenyl ketone	2600			100	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Methylcyclohexane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Methylene chloride	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	o-Xylene	37	J	J	50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Styrene	0	U	UJ	50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Tetrachloroethylene	0	U	UJ	50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Toluene	1000			50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Trichloroethylene	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Trichlorofluoromethane	0	U		50	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Trichlorotrifluoroethane	0	U		100	ug/L
MW-34A	MW-34A-032517	Permanent	Abandoned	3/25/2017	1.88 - 11.88	Vinyl chloride	0	U		20	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,1-Dichloroethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,1-Dichloroethene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,2-Dibromoethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,2-Dichloroethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,2-Dichloropropane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	2-Hexanone	410			100	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Acetone	1200			500	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Benzene	630			50	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Bromoform	0	U	UJ	5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Bromomethane	0	U	UJ	5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Carbon disulfide	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Carbon tetrachloride	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Chlorobenzene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Chloroethane	0	U		10	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Chloroform	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Chloromethane	0	U		10	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Cumene	8.8			5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Cyclohexane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Dibromochloromethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Dichlorobromomethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Dichlorodifluoromethane	0	U		10	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Ethylbenzene	9.9			5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	m & p-Xylenes	390			5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Methyl acetate	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Methyl ethyl ketone	90			50	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Methyl isobutenyl ketone	450			100	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Methylcyclohexane	1.2	J		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Methylene chloride	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	o-Xylene	34			5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Styrene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Toluene	830			50	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Trichloroethylene	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Trichlorofluoromethane	0	U		5	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34A	MW-34A-061317	Permanent	Abandoned	6/13/2017	1.88 - 11.88	Vinyl chloride	0	U		2	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,1,1-Trichloroethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,1,2-Trichloroethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,1-Dichloroethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,1-Dichloroethene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,2-Dibromoethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,2-Dichlorobenzene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,2-Dichloroethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,2-Dichloropropane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,3-Dichlorobenzene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	1,4-Dichlorobenzene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	2-Hexanone	2320			125	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Acetone	700			125	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Benzene	1270			25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Bromoform	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Bromomethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Carbon disulfide	0	U		125	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Carbon tetrachloride	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Chlorobenzene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Chloroethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Chloroform	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Chloromethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Cumene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Cyclohexane	0	U		125	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Dibromochloromethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Dichlorobromomethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Dichlorodifluoromethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Ethylbenzene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	m & p-Xylenes	310			50	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Methyl acetate	0	U		125	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Methyl ethyl ketone	337			125	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Methyl isobutenyl ketone	2670			125	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Methylcyclohexane	0	U		125	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Methylene Chloride	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	o-Xylene	26.8			25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Styrene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Tetrachloroethylene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Toluene	1110			25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Trichloroethylene	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Trichlorofluoromethane	0	U		25	ug/L
MW-34A	MW-34A-092917	Permanent	Abandoned	9/29/2017	1.88 - 11.88	Vinyl chloride	0	U		25	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,1,1-Trichloroethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,1,2-Trichloroethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,1-Dichloroethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,1-Dichloroethene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,2-Dibromoethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,2-Dichlorobenzene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,2-Dichloroethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,2-Dichloropropane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,3-Dichlorobenzene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	1,4-Dichlorobenzene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	2-Hexanone	1740			100	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Acetone	1550			100	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Benzene	1810			20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Bromoform	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Bromomethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Carbon disulfide	0	U		100	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Carbon tetrachloride	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Chlorobenzene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Chloroethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Chloroform	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Chloromethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Cumene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Cyclohexane	0	U		100	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Dibromochloromethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Dichlorobromomethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Dichlorodifluoromethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Ethylbenzene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	m & p-Xylenes	389			40	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Methyl acetate	0	U		100	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Methyl ethyl ketone	289			100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Methyl isobutenyl ketone	0	U		100	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Methylcyclohexane	0	U		100	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Methylene Chloride	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	o-Xylene	33.8			20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Styrene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Tetrachloroethylene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Toluene	1540			20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Trichloroethylene	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Trichlorofluoromethane	0	U		20	ug/L
MW-34A	MW-34A-120117	Permanent	Abandoned	12/1/2017	1.88 - 11.88	Vinyl chloride	0	U		20	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,1,2,2-Tetrachloroethane	139		J	20	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,1-Dichloroethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,1-Dichloroethene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,2-Dibromoethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,2-Dichloroethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,2-Dichloropropane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	2-Hexanone	1800		J	100	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Acetone	939		J	500	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Benzene	2590		J	20	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Bromodichloromethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Bromoform	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Bromomethane	0	U		2	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Carbon disulfide	0	U		10	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Carbon tetrachloride	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Chlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Chloroethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Chloroform	32		J	1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Chloromethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Cumene	0	U		10	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Cyclohexane	0	U		10	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Dibromochloromethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Ethylbenzene	18.6		J	1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	m & p-Xylenes	630		J	20	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Methyl acetate	0	U		10	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Methyl ethyl ketone	214		J	5	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Methyl isobutenyl ketone	3110		J	100	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Methylcyclohexane	0	U		10	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Methylene Chloride	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	o-Xylene	47.6		J	1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Styrene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Tetrachloroethylene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Toluene	2500		J	20	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Trichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Trichlorofluoromethane	0	U		1	ug/L
MW-34A	MW-34A-022318	Permanent	Abandoned	2/23/2018	1.88 - 11.88	Vinyl chloride	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,1-Dichloroethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,1-Dichloroethene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,2-Dibromoethane	0	U		2	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,2-Dichloroethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,2-Dichloropropane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	2-Hexanone	2420		J	250	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Acetone	1940		J	1250	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Benzene	2340		J	50	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Bromoform	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Bromomethane	0	U		2	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Carbon disulfide	0	U		10	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Carbon tetrachloride	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Chlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Chloroethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Chloroform	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Chloromethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Cumene	0	U		10	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Cyclohexane	0	U		10	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Dibromochloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Dichlorobromomethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Ethylbenzene	19.1		J	1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	m & p-Xylenes	575		J	50	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Methyl acetate	0	U		10	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Methyl ethyl ketone	215		J	5	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Methyl isobutenyl ketone	2910		J	250	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Methylcyclohexane	0	U		10	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Methylene Chloride	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Oil and Grease	0	U		6	mg/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	o-Xylene	49.2		J	1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Styrene	13.9		J	1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Tetrachloroethylene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Toluene	2330		J	50	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Trichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Trichlorofluoromethane	0	U		1	ug/L
MW-34A	MW-34A-051118	Permanent	Abandoned	5/11/2018	1.88 - 11.88	Vinyl chloride	1.9		J	1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,1-Dichloroethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,1-Dichloroethene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,2-Dibromoethane	0	U		2	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,2-Dichloroethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,2-Dichloropropane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	2-Hexanone	1430			250	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Acetone	392			50	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Benzene	2190			50	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Bromoform	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Bromomethane	0	U		2	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Carbon disulfide	0	U		10	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Carbon tetrachloride	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Chlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Chloroethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Chloroform	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Chloromethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Cumene	0	U		10	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Cyclohexane	0	U		10	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Dibromochloromethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Dichlorobromomethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Ethylbenzene	14		J	1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	m & p-Xylenes	491			2	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Methyl acetate	0	U		10	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Methyl ethyl ketone	67.3		J	5	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Methyl isobutenyl ketone	1860			250	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Methylcyclohexane	0	U		10	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Methylene Chloride	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	o-Xylene	44.8		J	1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Styrene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Tetrachloroethylene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Toluene	1920			50	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Trichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Trichlorofluoromethane	0	U		1	ug/L
MW-34A	MW-34A-080318	Permanent	Abandoned	8/3/2018	1.88 - 11.88	Vinyl chloride	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,1-Dichloroethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,1-Dichloroethene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,2-Dibromoethane	0	U		2	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,2-Dichloroethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,2-Dichloropropane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	2-Hexanone	1450		J	250	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Acetone	1750		J	1250	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Benzene	1160		J	50	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Bromoform	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Bromomethane	0	U		2	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Carbon disulfide	0	U		10	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Carbon tetrachloride	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Chlorobenzene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Chloroethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Chloroform	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Chloromethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Cumene	0	U		10	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Cyclohexane	0	U		10	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Dibromochloromethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Dichlorobromomethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Ethylbenzene	17.5		J	1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	m & p-Xylenes	746		J	50	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Methyl acetate	0	U		10	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Methyl ethyl ketone	270		J	5	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Methyl isobutenyl ketone	2240		J	250	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Methylcyclohexane	0	U		10	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Methylene Chloride	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	o-Xylene	56.9		J	1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Styrene	12.4		J	1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Tetrachloroethylene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Toluene	1390		J	50	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Trichloroethylene	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Trichlorofluoromethane	0	U		1	ug/L
MW-34A	MW-34A-101818	Permanent	Abandoned	10/18/2018	1.88 - 11.88	Vinyl chloride	0	U		1	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,1-Dichloroethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,1-Dichloroethene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,2-Dibromoethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,2-Dichloroethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,2-Dichloropropane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	2-Hexanone	0	U		10	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Acetone	0	U		50	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Benzene	11				ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Bromoform	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Bromomethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Carbon disulfide	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Chlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Chloroethane	0	U		10	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Chloromethane	0	U		10	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Cumene	11				ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Cyclohexane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Dibromochloromethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Dichlorobromomethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Dichlorodifluoromethane	0	U		10	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Ethylbenzene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	m & p-Xylenes	18				ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Methyl acetate	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Methyl ethyl ketone	0	U		50	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Methyl isobutenyl ketone	0	U		10	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Methylcyclohexane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Methylene chloride	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	o-Xylene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Styrene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Tetrachloroethylene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Toluene	19				ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Trichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Trichlorofluoromethane	0	U		5	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34B	MW-34B_9/23/15_NM	Permanent	Abandoned	9/23/2015	13.9 - 18.9	Vinyl chloride	0	U		2	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,1-Dichloroethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,1-Dichloroethene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,2-Dibromoethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,2-Dichloroethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,2-Dichloropropane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	2-Hexanone	0	U		10	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Acetone	0	U		50	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Benzene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Bromoform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Bromomethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Carbon disulfide	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Carbon tetrachloride	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Chlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Chloroethane	0	U		10	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Chloromethane	0	U		10	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Cumene	8				ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Cyclohexane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Dibromochloromethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Dichlorobromomethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Dichlorodifluoromethane	0	U		10	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Ethylbenzene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	m & p-Xylenes	17				ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Methyl acetate	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Methyl ethyl ketone	0	U		50	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Methyl isobutenyl ketone	0	U		10	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Methylcyclohexane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Methylene chloride	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	o-Xylene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Styrene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Tetrachloroethylene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Toluene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Trichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Trichlorofluoromethane	0	U		5	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34B	MW-34B_7/26/16_NM	Permanent	Abandoned	7/26/2016	13.9 - 18.9	Vinyl chloride	0	U		2	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,1-Dichloroethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,1-Dichloroethene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,2-Dibromoethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,2-Dichloroethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,2-Dichloropropane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	2-Hexanone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Acetone	0	U		50	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Benzene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Bromoform	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Bromomethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Carbon disulfide	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Carbon tetrachloride	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Chlorobenzene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Chloroethane	0	U		10	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Chloromethane	0	U		10	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Cumene	15				ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Cyclohexane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Dibromochloromethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Dichlorobromomethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Dichlorodifluoromethane	0	U		10	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Ethylbenzene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	m & p-Xylenes	9.8				ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Methyl acetate	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Methyl ethyl ketone	0	U		50	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Methyl isobutenyl ketone	0	U		10	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Methylcyclohexane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Methylene chloride	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	o-Xylene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Styrene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Tetrachloroethylene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Toluene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Trichloroethylene	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Trichlorofluoromethane	0	U		5	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34B	MW-34B_8/23/16_NM	Permanent	Abandoned	8/23/2016	13.9 - 18.9	Vinyl chloride	0	U		2	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,1-Dichloroethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,1-Dichloroethene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,2-Dibromoethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,2-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,2-Dichloropropane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	2-Hexanone	0	U		5	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Acetone	0	U		25	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Benzene	5.2			1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Bromodichloromethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Bromoform	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Carbon disulfide	0	U		10	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Carbon tetrachloride	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Chlorobenzene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Chloroethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Chloroform	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Chloromethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Cumene	0	U		10	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Cyclohexane	0	U		10	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Dibromochloromethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Ethylbenzene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	m & p-Xylenes	4.6			1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Methyl ethyl ketone	0	U		5	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Methylene Chloride	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	o-Xylene	1.5			1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Styrene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Tetrachloroethylene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Toluene	4.1			1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Trichloroethylene	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Trichlorofluoromethane	0	U		1	ug/L
MW-34B	MW-34B-022318	Permanent	Abandoned	2/23/2018	13.9 - 18.9	Vinyl chloride	0	U		1	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,1-Dichloroethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,1-Dichloroethene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,2-Dibromoethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,2-Dichloroethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,2-Dichloropropane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	2-Hexanone	15				ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Acetone	0	U		50	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Benzene	10				ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Bromoform	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Bromomethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Carbon disulfide	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Carbon tetrachloride	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Chlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Chloroethane	0	U		10	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Chloroform	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Chloromethane	0	U		10	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Cumene	6.1				ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Cyclohexane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Dibromochloromethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Dichlorobromomethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Dichlorodifluoromethane	0	U		10	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Ethylbenzene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	m & p-Xylenes	53				ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Methyl acetate	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Methyl ethyl ketone	0	U		50	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Methyl isobutenyl ketone	14				ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Methylcyclohexane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Methylene chloride	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	o-Xylene	5.6				ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Styrene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Tetrachloroethylene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Toluene	27				ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Trichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Trichlorofluoromethane	0	U		5	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34C	MW-34C_9/23/15_NM	Permanent	Abandoned	9/23/2015	18.57 - 23.57	Vinyl chloride	0	U		2	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,1-Dichloroethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,1-Dichloroethene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,2-Dibromoethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,2-Dichloroethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,2-Dichloropropane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	2-Hexanone	24				ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Acetone	570				ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Benzene	16				ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Bromoform	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Bromomethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Carbon disulfide	59				ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Carbon tetrachloride	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Chlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Chloroethane	0	U		10	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Chloroform	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Chloromethane	0	U		10	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Cumene	6.6				ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Cyclohexane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Dibromochloromethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Dichlorobromomethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Dichlorodifluoromethane	0	U		10	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Ethylbenzene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	m & p-Xylenes	34				ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Methyl acetate	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Methyl ethyl ketone	0	U		50	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Methyl isobutenyl ketone	42				ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Methylcyclohexane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Methylene chloride	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	o-Xylene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Styrene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Tetrachloroethylene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Toluene	31				ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Trichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Trichlorofluoromethane	0	U		5	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Trichlorotrifluoroethane	0	U		10	ug/L
MW-34C	MW-34C_7/26/16_NM	Permanent	Abandoned	7/26/2016	18.57 - 23.57	Vinyl chloride	0	U		2	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,1,1-Trichloroethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,1,2,2-Tetrachloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,1,2-Trichloroethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,1-Dichloroethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,1-Dichloroethene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,2-Dibromoethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,2-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,2-Dichloroethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,2-Dichloropropane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,3-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	1,4-Dichlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	2-Hexanone	0	U		10	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Acetone	770				ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Benzene	10				ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Bromoform	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Bromomethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Carbon disulfide	65				ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Carbon tetrachloride	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Chlorobenzene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Chloroethane	0	U		10	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Chloroform	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Chloromethane	0	U		10	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Cumene	7.5				ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Cyclohexane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Dibromochloromethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Dichlorobromomethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Dichlorodifluoromethane	0	U		10	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Ethylbenzene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	m & p-Xylenes	30				ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Methyl acetate	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Methyl ethyl ketone	0	U		50	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Methyl isobutenyl ketone	13				ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Methylcyclohexane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Methylene chloride	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	o-Xylene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Styrene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Tetrachloroethylene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Toluene	15				ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Trichloroethylene	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Trichlorofluoromethane	0	U		5	ug/L
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Trichlorotrifluoroethane	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34C	MW-34C_8/23/16_NM	Permanent	Abandoned	8/23/2016	18.57 - 23.57	Vinyl chloride	0	U		2	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,1,1-Trichloroethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,1,2-Trichloroethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,1-Dichloroethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,1-Dichloroethene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,2-Dibromoethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,2-Dichlorobenzene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,2-Dichloroethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,2-Dichloropropane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,3-Dichlorobenzene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	1,4-Dichlorobenzene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	2-Hexanone	6.7			5	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Acetone	0	U		25	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Benzene	36.3			1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Bromodichloromethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Bromoform	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Bromomethane	0	U		2	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Carbon disulfide	0	U		10	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Carbon tetrachloride	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Chlorobenzene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Chloroethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Chloroform	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Chloromethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Cumene	0	U		10	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Cyclohexane	0	U		10	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Dibromochloromethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Dichlorodifluoromethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Ethylbenzene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	m & p-Xylenes	9.4			1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Methyl acetate	0	U		10	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Methyl ethyl ketone	0	U		5	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Methyl isobutenyl ketone	11.3			5	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Methylcyclohexane	0	U		10	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Methylene Chloride	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	o-Xylene	1.7			1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Styrene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Tetrachloroethylene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Toluene	35.6			1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Trichloroethylene	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Trichlorofluoromethane	0	U		1	ug/L
MW-34C	MW-34C-022318	Permanent	Abandoned	2/23/2018	18.57 - 23.57	Vinyl chloride	0	U		1	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Acetone	0	U		50	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Alkalinity, M (pH 4.5) (CaCO3)	81				mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Alkalinity, P (pH 8.3) (CaCO3)	0	U		3	mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Alkalinity, Total (As CaCO3)	81				mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Benzene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Biochemical Oxygen Demand	0	U		5	mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Chemical Oxygen Demand	49.1				mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Cumene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Iron (total)	0.551				mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Iron, as Ferric (Fe+3)	0.551				mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Iron, as Ferrous (Fe+2)	0	U		1	mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Nitrogen, total Kjeldahl (TKN)	1.02				mg/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Styrene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Toluene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-35	MW-35_7/8/15_NM	Permanent	Abandoned	7/8/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	2-Hexanone	0	U		10	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Acetone	8.4	J		50	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Benzene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Bromoform	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Bromomethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Chloroethane	0	U		10	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Chloroform	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Chloromethane	0	U		10	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Cumene	2.1	J		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Cyclohexane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Dichlorobromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Methyl acetate	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Methylene chloride	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	o-Xylene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Styrene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Toluene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-35	MW-35_12/14/16_NM	Permanent	Abandoned	12/14/2016	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	2-Hexanone	0	U		10	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Acetone	0	U		50	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Benzene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Bromoform	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Bromomethane	0	U	UJ	5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Carbon disulfide	1.4	J		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Cumene	2	J		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Ethylbenzene	0	U	UJ	5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	m & p-Xylenes	0	U	UJ	5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	o-Xylene	0	U	UJ	5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Styrene	0	U	UJ	5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Toluene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-35	MW-35-032517	Permanent	Abandoned	3/25/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Acetone	0	U		5	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Benzene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Chloroform	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Cumene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	o-Xylene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Styrene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Toluene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-35	MW-35-092917	Permanent	Abandoned	9/29/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Acetone	0	U		50	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Alkalinity, M (pH 4.5) (CaCO3)	137				mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Alkalinity, P (pH 8.3) (CaCO3)	0	U		3	mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Alkalinity, Total (As CaCO3)	137				mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Benzene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Biochemical Oxygen Demand	17.2				mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Bromoform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Chemical Oxygen Demand	108				mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Cumene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Iron (total)	4.07				mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Iron, as Ferric (Fe+3)	0	U		0.1	mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Iron, as Ferrous (Fe+2)	6				mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	m & p-Xylenes	21				ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Nitrogen, total Kjeldahl (TKN)	1.84				mg/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Styrene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Toluene	14				ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-36	MW-36_7/8/15_NM	Permanent	Active	7/8/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Acetone	0	U		5	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Benzene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Cumene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	o-Xylene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Styrene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Toluene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-36	MW-36-120117	Permanent	Active	12/1/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Acetone	0	U		25	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Benzene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Cumene	0	U		10	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Styrene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Toluene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-36	MW-36-080318	Permanent	Active	8/3/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L

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Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Acetone	0	U		25	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Benzene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Cumene	0	U		10	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Styrene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Toluene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-36	MW-36-042619	Permanent	Active	4/26/2019	2 - 12	Vinyl chloride	0	U		1	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Acetone	0	U		25	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Benzene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Cumene	0	U		10	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Styrene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Toluene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-36	MW-36-112219	Permanent	Active	11/22/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	2-Hexanone	0	U		5	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Acetone	0	U		25	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Benzene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Bromoform	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Bromomethane	0	U		2	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Carbon disulfide	0	U		2	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Chloroethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Chloroform	0	U		5	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Chloromethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Cumene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Cyclohexane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Methyl acetate	0	U		10	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	o-Xylene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Styrene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Tetrachloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Toluene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-36	MW-36-042820	Permanent	Active	4/28/2020	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,1,1-Trichloroethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2-Trichloroethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,1-Dichloroethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,1-Dichloroethene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,2,4-Trichlorobenzene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dibromoethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichlorobenzene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichloroethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichloropropane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,3-Dichlorobenzene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	1,4-Dichlorobenzene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	2-Hexanone	0			5	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Acetone	0			25	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Benzene	0.4	J	J	1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Bromoform	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Bromomethane	0			2	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Carbon tetrachloride	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Chlorobenzene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Chloroethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Chloroform	0			5	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Chloromethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	cis-1,2-Dichloroethylene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	cis-1,3-Dichloropropylene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Cumene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Cyclohexane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Dibromochloromethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Dichlorobromomethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Dichlorodifluoromethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Ethylbenzene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Methyl acetate	0			10	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Methyl ethyl ketone	0			5	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Methyl isobutenyl ketone	0			5	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Methylcyclohexane	0			10	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Methylene Chloride	0			5	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Styrene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Tetrachloroethylene	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Toluene	0.59	J	J	1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	trans-1,2-Dichloroethylene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	trans-1,3-Dichloropropylene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Trichloroethylene	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Trichlorofluoromethane	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Vinyl acetate	0			2	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Vinyl chloride	0			1	ug/L
MW-36	MW-36-102720	Permanent	Active	10/27/2020	2 - 12	Xylene (Total)	0			1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	2-Hexanone	0	U		5	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Acetone	0	U		25	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Benzene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Bromoform	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Bromomethane	0	U		2	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Chloroethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Chloroform	0	U		5	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Chloromethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Cumene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Cyclohexane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Dibromomethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Methyl acetate	0	U		10	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Methylene Chloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Styrene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Toluene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Vinyl acetate	0	U		2	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-36	MW-36-040721	Permanent	Active	4/7/2021	2 - 12	Xylene (Total)	0	U		1	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Alkalinity, M (pH 4.5) (CaCO3)	61				mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Alkalinity, P (pH 8.3) (CaCO3)	0	U		3	mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Alkalinity, Total (As CaCO3)	61				mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Benzene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Biochemical Oxygen Demand	0	U		5	mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Chemical Oxygen Demand	178				mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Iron (total)	5.53				mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Iron, as Ferric (Fe+3)	5.53				mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Iron, as Ferrous (Fe+2)	0	U		5	mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	m & p-Xylenes	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Nitrogen, total Kjeldahl (TKN)	6.2				mg/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	o-Xylene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Toluene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-37	MW-37_7/8/15_NM	Permanent	Active	7/8/2015	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	2-Hexanone	0	U		100000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Acetone	0	U		100000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Benzene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Carbon disulfide	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Cumene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Ethylbenzene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	m & p-Xylenes	38000				ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl acetate	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl ethyl ketone	0	U		100000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl isobutenyl ketone	0	U		20000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	o-Xylene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Tetrachloroethylene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Toluene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Trichloroethylene	0	U		10000	ug/L
MW-37	MW-37_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Vinyl chloride	0	U		20000	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Alkalinity, M (pH 4.5) (CaCO3)	61				mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Alkalinity, P (pH 8.3) (CaCO3)	0	U		3	mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Alkalinity, Total (As CaCO3)	61				mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Benzene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Biochemical Oxygen Demand	0	U		5	mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chemical Oxygen Demand	178				mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Iron (total)	5.53				mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Iron, as Ferric (Fe+3)	5.53				mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Iron, as Ferrous (Fe+2)	0	U		5	mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	m & p-Xylenes	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Nitrogen, total Kjeldahl (TKN)	6.2				mg/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	o-Xylene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Toluene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-37	MW-37_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Benzene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	m & p-Xylenes	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	o-Xylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Toluene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-37	MW-37_12/14/16_NM	Permanent	Active	12/14/2016	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Acetone	0	U		5	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Benzene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Bromomethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Cumene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	m & p-Xylenes	0	U		2	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	o-Xylene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Toluene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-37	MW-37-120117	Permanent	Active	12/1/2017	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,2-Dibromoethane	0	U		2	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Acetone	0	U		25	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Benzene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Bromomethane	0	U		2	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Carbon disulfide	0	U		10	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Cumene	0	U		10	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Cyclohexane	0	U		10	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	m & p-Xylenes	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Methyl acetate	0	U		10	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Methylcyclohexane	0	U		10	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	o-Xylene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Toluene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-37	MW-37-080318	Permanent	Active	8/3/2018	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,2-Dibromoethane	0	U		2	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Acetone	0	U		25	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Benzene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Bromomethane	0	U		2	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Carbon disulfide	0	U		10	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Cumene	0	U		10	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Cyclohexane	0	U		10	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	m & p-Xylenes	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Methyl acetate	0	U		10	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Methylcyclohexane	0	U		10	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	o-Xylene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Toluene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-37	MW-37-042619	Permanent	Active	4/26/2019	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,2-Dibromoethane	0	U		2	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Acetone	0	U		25	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Benzene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Bromomethane	0	U		2	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Carbon disulfide	0	U		10	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Cumene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Cyclohexane	0	U		10	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	m & p-Xylenes	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Methyl acetate	0	U		10	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Methylcyclohexane	0	U		10	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	o-Xylene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Toluene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-37	MW-37-112219	Permanent	Active	11/22/2019	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,2-Dibromoethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Acetone	0	U		25	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Benzene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Bromomethane	0	U		2	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Carbon disulfide	0	U		2	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Chloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Cumene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Cyclohexane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	m & p-Xylenes	0	U		2	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Methyl acetate	0	U		10	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Methylcyclohexane	0	U		10	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Methylene Chloride	0	U		5	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	o-Xylene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Toluene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-37	MW-37-042820	Permanent	Active	4/28/2020	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,1,1-Trichloroethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,1,2-Trichloroethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,1-Dichloroethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,1-Dichloroethene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,2,4-Trichlorobenzene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,2-Dibromoethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,2-Dichlorobenzene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,2-Dichloroethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,2-Dichloropropane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,3-Dichlorobenzene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	1,4-Dichlorobenzene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	2-Hexanone	0			5	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Acetone	0			25	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Benzene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Bromoform	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Bromomethane	0			2	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Carbon tetrachloride	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Chlorobenzene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Chloroethane	0			1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Chloroform	0			5	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Chloromethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	cis-1,2-Dichloroethylene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	cis-1,3-Dichloropropylene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Cumene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Cyclohexane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Dibromochloromethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Dichlorobromomethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Dichlorodifluoromethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Ethylbenzene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Methyl acetate	0			10	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Methyl ethyl ketone	0			5	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Methyl isobutenyl ketone	0			5	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Methylcyclohexane	0			10	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Methylene Chloride	0			5	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Styrene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Tetrachloroethylene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Toluene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	trans-1,2-Dichloroethylene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	trans-1,3-Dichloropropylene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Trichloroethylene	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Trichlorofluoromethane	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Vinyl acetate	0			2	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Vinyl chloride	0			1	ug/L
MW-37	MW-37-102720	Permanent	Active	10/27/2020	5.2 - 15.2	Xylene (Total)	0			1	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Acetone	50				ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Benzene	900				ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Cumene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Ethylbenzene	9.5				ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	m & p-Xylenes	240				ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	o-Xylene	18				ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Styrene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Toluene	190				ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38	MW-38_7/17/15_NM	Permanent	Active	7/17/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,1-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,1-Dichloroethene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,2-Dibromoethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,2-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,2-Dichloropropane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	2-Hexanone	0	U		10	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Acetone	0	U		50	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Benzene	1300				ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Bromoform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Bromomethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Carbon disulfide	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Carbon tetrachloride	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Chlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Chloroform	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Cumene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Cyclohexane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Dibromochloromethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Dichlorobromomethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Ethylbenzene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	m & p-Xylenes	230				ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Methyl acetate	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Methyl ethyl ketone	0	U		50	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Methylcyclohexane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Methylene chloride	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	o-Xylene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Styrene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Tetrachloroethylene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Toluene	99				ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Trichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Trichlorofluoromethane	0	U		5	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A_7/25/16_NM	Permanent	Active	7/25/2016	5.24 - 15.24	Vinyl chloride	0	U		2	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,1-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,1-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,1-Dichloroethene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,1-Dichloroethene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dibromoethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dibromoethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dichloropropane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,2-Dichloropropane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	2-Hexanone	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	2-Hexanone	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Acetone	38	J		50	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Acetone	48	J		50	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Benzene	1300			500	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Benzene	1200			500	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Bromoform	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Bromoform	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Bromomethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Bromomethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Carbon disulfide	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Carbon disulfide	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Carbon tetrachloride	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Carbon tetrachloride	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Chlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Chlorobenzene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Chloroform	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Chloroform	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Cumene	7			5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Cumene	7.5			5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Cyclohexane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Cyclohexane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Dibromochloromethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Dibromochloromethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Dichlorobromomethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Dichlorobromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Ethylbenzene	15			5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Ethylbenzene	14			5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	m & p-Xylenes	220			5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	m & p-Xylenes	230			5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Methyl acetate	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Methyl acetate	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Methyl ethyl ketone	13	J		50	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Methyl ethyl ketone	12	J		50	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Methyl isobutenyl ketone	260			10	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Methyl isobutenyl ketone	270			10	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Methylcyclohexane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Methylcyclohexane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Methylene chloride	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Methylene chloride	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	o-Xylene	22			5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	o-Xylene	23			5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Styrene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Styrene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Tetrachloroethylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Tetrachloroethylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Toluene	97			5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Toluene	100			5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Trichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Trichloroethylene	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Trichlorofluoromethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Trichlorofluoromethane	0	U		5	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A_12/13/16_DUP	Permanent	Active	12/13/2016	5.24 - 15.24	Vinyl chloride	0	U		2	ug/L
MW-38A	MW-38A_12/13/16_NM	Permanent	Active	12/13/2016	5.24 - 15.24	Vinyl chloride	0	U		2	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,1-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,1-Dichloroethene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,2-Dibromoethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,2-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,2-Dichloropropane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	2-Hexanone	0	U		10	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Acetone	0	U		50	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Acetone	38	J		50	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Benzene	1300			100	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Benzene	1400			250	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Bromoform	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Bromomethane	0	U	UJ	5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Carbon disulfide	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Carbon disulfide	1.2	J		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Carbon tetrachloride	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Chlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Chlorobenzene	36			5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Chloroform	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Cumene	6.4			5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Cumene	8			5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Cyclohexane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Dibromochloromethane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Dichlorobromomethane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Ethylbenzene	12		J	5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Ethylbenzene	17		J	5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	m & p-Xylenes	210		J	5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	m & p-Xylenes	300			5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Methyl acetate	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Methyl ethyl ketone	0	U		50	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Methyl isobutenyl ketone	150			10	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Methylcyclohexane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Methylene chloride	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	o-Xylene	23		J	5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	o-Xylene	32			5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Styrene	0	U	UJ	5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Tetrachloroethylene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Toluene	150			5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Toluene	170			5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Trichloroethylene	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Trichlorofluoromethane	0	U		5	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-032617	Permanent	Active	3/26/2017	5.24 - 15.24	Vinyl chloride	0	U		2	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,1-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,1-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,1-Dichloroethene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,1-Dichloroethene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dibromoethane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dibromoethane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dichloroethane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dichloropropane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,2-Dichloropropane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	2-Hexanone	0	U		10	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	2-Hexanone	0	U		10	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Acetone	78		J	50	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Acetone	61		J	50	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Benzene	1100			50	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Benzene	1100			50	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Bromoform	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Bromoform	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Bromomethane	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Bromomethane	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Carbon disulfide	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Carbon disulfide	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Chlorobenzene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Chlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Chloroform	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Chloroform	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Cumene	8			5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Cumene	8.1			5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Cyclohexane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Cyclohexane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Dibromochloromethane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Dibromochloromethane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Dichlorobromomethane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Dichlorobromomethane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Ethylbenzene	14			5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Ethylbenzene	14			5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	m & p-Xylenes	270			5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	m & p-Xylenes	280			5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Methyl acetate	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Methyl acetate	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Methyl ethyl ketone	0	U		50	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Methyl ethyl ketone	0	U		50	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Methylcyclohexane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Methylcyclohexane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Methylene chloride	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Methylene chloride	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	o-Xylene	24			5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	o-Xylene	24			5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Styrene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Styrene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Tetrachloroethylene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Tetrachloroethylene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Toluene	130			5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Toluene	130			5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Trichloroethylene	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Trichloroethylene	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Trichlorofluoromethane	0	U		5	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Trichlorofluoromethane	0	U		5	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-061417-DUP	Permanent	Active	6/14/2017	5.24 - 15.24	Vinyl chloride	0	U		2	ug/L
MW-38A	MW-38A-061417	Permanent	Active	6/14/2017	5.24 - 15.24	Vinyl chloride	0	U		2	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,1,1-Trichloroethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,1,2-Trichloroethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,1-Dichloroethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,1-Dichloroethene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,2-Dibromoethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,2-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,2-Dichloroethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,2-Dichloropropane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,3-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	1,4-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	2-Hexanone	0	U		50	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Acetone	183			50	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Benzene	878			10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Bromoform	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Bromomethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Carbon disulfide	0	U		50	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Carbon tetrachloride	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Chlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Chloroform	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Cumene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Cyclohexane	0	U		50	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Dibromochloromethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Dichlorobromomethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Ethylbenzene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	m & p-Xylenes	193			20	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Methyl acetate	0	U		50	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Methyl isobutenyl ketone	0	U		50	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Methylcyclohexane	0	U		50	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Methylene Chloride	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	o-Xylene	18.9			10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Styrene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Tetrachloroethylene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Toluene	153			10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Trichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Trichlorofluoromethane	0	U		10	ug/L
MW-38A	MW-38A-092917	Permanent	Active	9/29/2017	5.24 - 15.24	Vinyl chloride	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,1,1-Trichloroethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,1,2-Trichloroethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,1-Dichloroethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,1-Dichloroethene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,2-Dibromoethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,2-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,2-Dichloroethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,2-Dichloropropane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,3-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	1,4-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	2-Hexanone	0	U		50	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Acetone	62.8			50	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Benzene	870			10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Bromoform	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Bromomethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Carbon disulfide	0	U		50	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Carbon tetrachloride	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Chlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Chloroform	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Cumene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Cyclohexane	0	U		50	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Dibromochloromethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Dichlorobromomethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Ethylbenzene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	m & p-Xylenes	183			20	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Methyl acetate	0	U		50	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Methyl ethyl ketone	0	U		50	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Methyl isobutenyl ketone	0	U		50	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Methylcyclohexane	0	U		50	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Methylene Chloride	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	o-Xylene	19.1			10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Styrene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Tetrachloroethylene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Toluene	119			10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Trichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Trichlorofluoromethane	0	U		10	ug/L
MW-38A	MW-38A-120117	Permanent	Active	12/1/2017	5.24 - 15.24	Vinyl chloride	0	U		10	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,1,2,2-Tetrachloroethane	59.7			1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,1-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,1-Dichloroethene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,2-Dibromoethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,2-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,2-Dichloropropane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	2-Hexanone	18			5	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Acetone	0	U		25	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Benzene	544			10	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Bromodichloromethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Bromoform	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Bromomethane	0	U		2	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Carbon disulfide	0	U		10	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Carbon tetrachloride	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Chlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Chloroethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Chloroform	11.3			1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Chloromethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	cis-1,2-Dichloroethylene	1.9			1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Cumene	0	U		10	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Cyclohexane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Dibromochloromethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Ethylbenzene	7.3			1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	m & p-Xylenes	134			1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Methyl acetate	0	U		10	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Methyl ethyl ketone	0	U		5	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Methylcyclohexane	0	U		10	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Methylene Chloride	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	o-Xylene	14.4			1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Styrene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Tetrachloroethylene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Toluene	53			1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Trichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Trichlorofluoromethane	0	U		1	ug/L
MW-38A	MW-38A-022318	Permanent	Active	2/23/2018	5.24 - 15.24	Vinyl chloride	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,1-Dichloroethane	2.7			1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,1-Dichloroethene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,2-Dibromoethane	0	U		2	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,2-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,2-Dichloropropane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	2-Hexanone	0	U		5	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Acetone	85.4		J-	25	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Benzene	803		J-	10	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Bromoform	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Bromomethane	0	U		2	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Carbon disulfide	0	U		10	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Carbon tetrachloride	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Chlorobenzene	4.7		J-	1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Chloroethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Chloroform	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Chloromethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Cumene	0	U		10	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Cyclohexane	0	U		10	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Dibromochloromethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Dichlorobromomethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Ethylbenzene	9.4		J-	1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	m & p-Xylenes	190		J-	1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Methyl acetate	0	U		10	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Methyl ethyl ketone	0	U		5	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Methylcyclohexane	0	U		10	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Methylene Chloride	11.9		J-	1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	o-Xylene	21.3		J-	1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Styrene	2		J-	1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Tetrachloroethylene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Toluene	64		J-	1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Trichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Trichlorofluoromethane	0	U		1	ug/L
MW-38A	MW-38A-051118	Permanent	Active	5/11/2018	5.24 - 15.24	Vinyl chloride	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,1-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,1-Dichloroethene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,2-Dibromoethane	0	U		2	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,2-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,2-Dichloropropane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	2-Hexanone	16.3			5	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Acetone	99.9		J	25	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Benzene	377			10	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Bromoform	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Bromomethane	0	U		2	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Carbon disulfide	0	U		10	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Carbon tetrachloride	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Chlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Chloroethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Chloroform	4.1			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Chloromethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Cumene	0	U		10	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Cyclohexane	0	U		10	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Dibromochloromethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Dichlorobromomethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Ethylbenzene	7.6			1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	m & p-Xylenes	152			1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Methyl acetate	0	U		10	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Methyl ethyl ketone	0	U		5	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Methylcyclohexane	0	U		10	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Methylene Chloride	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	o-Xylene	16.7			1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Styrene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Tetrachloroethylene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Toluene	25.8			1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Trichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Trichlorofluoromethane	0	U		1	ug/L
MW-38A	MW-38A-080318	Permanent	Active	8/3/2018	5.24 - 15.24	Vinyl chloride	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,1-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,1-Dichloroethene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,2-Dibromoethane	0	U		2	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,2-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,2-Dichloropropane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	2-Hexanone	0	U		5	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Acetone	0	U		25	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Benzene	341		J	10	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Bromoform	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Bromomethane	0	U		2	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Carbon disulfide	0	U		10	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Carbon tetrachloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Chlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Chloroethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Chloroform	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Chloromethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Cumene	0	U		10	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Cyclohexane	0	U		10	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Dibromochloromethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Dichlorobromomethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Ethylbenzene	9.3			1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	m & p-Xylenes	175		J	1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Methyl acetate	0	U		10	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Methyl ethyl ketone	0	U		5	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Methylcyclohexane	0	U		10	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Methylene Chloride	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	o-Xylene	18.6			1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Styrene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Tetrachloroethylene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Toluene	40.1		J	1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Trichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Trichlorofluoromethane	0	U		1	ug/L
MW-38A	MW-38A-101818	Permanent	Active	10/18/2018	5.24 - 15.24	Vinyl chloride	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,1-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,1-Dichloroethene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,2-Dibromoethane	0	U		2	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,2-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,2-Dichloropropane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	2-Hexanone	12.8		J+	5	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Acetone	58.7		J+	25	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Benzene	401		J+	10	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Bromoform	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Bromomethane	0	U		2	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Carbon disulfide	0	U		10	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Carbon tetrachloride	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Chlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Chloroethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Chloroform	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Chloromethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Cumene	0	U		10	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Cyclohexane	0	U		10	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Dibromochloromethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Dichlorobromomethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Ethylbenzene	9.3		J+	1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	m & p-Xylenes	242		J+	1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Methyl acetate	0	U		10	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Methyl ethyl ketone	0	U		5	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Methyl isobutenyl ketone	8.7		J+	5	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Methylcyclohexane	0	U		10	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Methylene Chloride	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	o-Xylene	23.6		J+	1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Styrene	3.4		J+	1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Tetrachloroethylene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Toluene	123		J+	1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Trichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Trichlorofluoromethane	0	U		1	ug/L
MW-38A	MW-38A-042519	Permanent	Active	4/25/2019	5.24 - 15.24	Vinyl chloride	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,1-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,1-Dichloroethene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,2-Dibromoethane	0	U		2	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,2-Dichloroethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,2-Dichloropropane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	2-Hexanone	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Acetone	57			25	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Benzene	203			10	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Bromoform	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Bromomethane	0	U		2	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Carbon disulfide	0	U		10	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Carbon tetrachloride	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Chlorobenzene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Chloroethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Chloroform	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Chloromethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Cumene	0	U		10	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Cyclohexane	0	U		10	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Dibromochloromethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Dichlorobromomethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Dichlorodifluoromethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Ethylbenzene	5.1			1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	m & p-Xylenes	103			1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Methyl acetate	0	U		10	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Methyl ethyl ketone	0	U		5	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Methylcyclohexane	0	U		10	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Methylene Chloride	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	o-Xylene	11.7			1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Styrene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Tetrachloroethylene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Toluene	14.1			1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Trichloroethylene	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Trichlorofluoromethane	0	U		1	ug/L
MW-38A	MW-38A-112219	Permanent	Active	11/22/2019	5.24 - 15.24	Vinyl chloride	0	U		1	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,1,1-Trichloroethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,1,2-Trichloroethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,1-Dichloroethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,1-Dichloroethene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		125	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,2-Dibromoethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,2-Dichlorobenzene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,2-Dichloroethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,2-Dichloropropane	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,3-Dichlorobenzene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	1,4-Dichlorobenzene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	2-Hexanone	0	U		125	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Acetone	0	U		625	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Benzene	289		J	25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Bromoform	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Bromomethane	0	U		50	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Carbon disulfide	0	U		50	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Carbon tetrachloride	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Chlorobenzene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Chloroethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Chloroform	0	U		125	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Chloromethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Cumene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Cyclohexane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Dibromochloromethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Dichlorobromomethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Dichlorodifluoromethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Ethylbenzene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	m & p-Xylenes	120		J	50	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Methyl acetate	0	U		250	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Methyl ethyl ketone	0	U		125	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Methyl isobutenyl ketone	0	U		125	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Methylcyclohexane	0	U		250	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Methylene Chloride	0	U		125	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	o-Xylene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Styrene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Tetrachloroethylene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Toluene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Trichloroethylene	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Trichlorofluoromethane	0	U		25	ug/L
MW-38A	MW-38A-042920	Permanent	Active	4/29/2020	5.24 - 15.24	Vinyl chloride	0	U		25	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,1,1,2-Tetrachloroethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,1,1-Trichloroethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,1,2-Trichloroethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,1-Dichloroethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,1-Dichloroethene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2,3-Trichlorobenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2,3-Trichloropropane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2,4,5-Tetrachlorobenzene	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2-Dibromoethane	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2-Dichlorobenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2-Dichlorobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2-Dichloroethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2-Dichloropropane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,2-Diphenylhydrazine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,3,5-Trinitrobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,3-Dichlorobenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,3-Dichlorobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,3-Dinitrobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,4-Dichlorobenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,4-Dichlorobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,4-Dinitrobenzene	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,4-Dioxane (p-Dioxane)	0	U		7500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1,4-Naphthoquinone	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1-Methylnaphthalene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	1-Naphthalenamine	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,2'-Oxybis(1-chloropropane)	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,3,4,6-Tetrachlorophenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,3-Dibromo-1-propanol phosph	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,3-Dichloroaniline	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4,5-T	0	U		2	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4,5-TP (Silvex)	0	U		2	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4,5-Trichlorophenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4,6-Trichlorophenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4-D	0	U		2	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4-Dichlorophenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4-Dimethylphenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4-Dinitrophenol	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,4-Dinitrotoluene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,6-Dichlorophenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2,6-Dinitrotoluene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Acetylaminofluorene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Chloronaphthalene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Chlorophenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Hexanone	0	U		250	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Methyl-5-nitroaniline	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Methylnaphthalene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Methylphenol(o-Cresol)	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Naphthalenamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Nitroaniline	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Nitrophenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	2-Picoline	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	3&4-Methylphenol(m&p Cresol)	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	3,3'-Dichlorobenzidine	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	3,3'-Dimethylbenzidine	0	U		250	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	3-Methylcholanthrene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	3-Nitroaniline	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4,4'-DDD	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4,4'-DDE	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4,4'-DDT	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4,4'-Methylene-bis(2-chloroani	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4,6-Dinitro-2-methylphenol	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4-Aminobiphenyl	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4-Bromophenylphenyl ether	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4-Chloro-3-methylphenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4-Chloroaniline	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4-Chlorophenylphenyl ether	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4-Nitroaniline	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4-Nitrophenol	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	4-Nitroquinoline-n-oxide	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	5-Nitro-o-toluidine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	7,12-Dimethylbenz(a)anthracene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	a,a-Dimethylphenylethylamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Acenaphthene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Acenaphthylene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Acetone	0	U		1250	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Acetonitrile	0	U		2500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Acetophenone	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Acrolein	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Acrylonitrile	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Aldrin	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Allyl chloride	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	alpha-BHC	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Aniline	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Anthracene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Antimony, Total	0.7	J		5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Aramite	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Arsenic, Total	1.7	J		5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Atrazine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Barium, Total	17			5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzal chloride	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzaldehyde	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzene	133			50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzidine	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzo(a)anthracene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzo(a)pyrene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzo(b)fluoranthene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzo(g,h,i)perylene	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzo(k)fluoranthene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzoic Acid	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzophenone	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Benzyl alcohol	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Beryllium, Total	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	beta-BHC	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Biphenyl (Diphenyl)	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	bis(2-Chloroethoxy)methane	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	bis(2-Chloroethyl) ether	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	bis(2-Ethylhexyl)phthalate	0	U		60	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Bromobenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Bromochloromethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Bromoform	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Bromomethane	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Butylbenzylphthalate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Cadmium, Total	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Caprolactam	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Carbazole	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Carbon disulfide	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Carbon tetrachloride	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chlordane (Technical)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chlorobenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chlorobenzilate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chloroethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chloroform	0	U		250	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chloromethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chloroprene	0	U		250	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chromium, Total	0.76	J		5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Chrysene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Cobalt, Total	0	U		5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Copper, Total	0	U		5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Cyanide	0	U		0	mg/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	delta-BHC	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Diallate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dibenz(a,h)anthracene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dibenzo(a,e)pyrene	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dibenzofuran	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dibromochloromethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dibromomethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dichlorobromomethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dichlorodifluoromethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dieldrin	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Diethylphthalate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dimethoate	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dimethylphthalate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Di-n-butylphthalate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Di-n-octylphthalate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Dinoseb	0	U		2	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Diphenyl ether (Phenyl ether)	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Diphenylamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Disulfoton	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Endosulfan I	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Endosulfan II	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Endosulfan sulfate	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Endrin	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Endrin aldehyde	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Ethyl methacrylate	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Ethyl methanesulfonate	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Ethylbenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Famphur	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Fluoranthene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Fluorene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	gamma-BHC (Lindane)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Heptachlor	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Heptachlor epoxide	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Hexachloro-1,3-butadiene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Hexachloro-1,3-butadiene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Hexachlorobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Hexachlorocyclopentadiene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Hexachloroethane	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Hexachlorophene	0	U		1000	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Hexachloropropene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Indeno(1,2,3-cd)pyrene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Iodomethane	0	U		1000	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Isobutanol	0	U		5000	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Isodrin	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Isophorone	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Isosafrole	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Kepone	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Lead, Total	0	U		1	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Mercury, Total	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methacrylonitrile	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methapyrilene	0	U		500	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methoxychlor	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methyl ethyl ketone	0	U		250	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methyl isobutenyl ketone	0	U		250	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methyl methacrylate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methyl methanesulfonate	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methyl parathion	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Methylene Chloride	0	U		250	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Naphthalene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	n-Decane	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Nickel, Total	0	U		5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Nitrobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitrosodiethylamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitrosodimethylamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitroso-di-n-butylamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitroso-di-n-propylamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitrosodiphenylamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitrosomethylethylamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitrosomorpholine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitrosopiperidine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	N-Nitrosopyrrolidine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	n-Octadecane	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	O,O,O-Triethylphosphorothioate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	O-Toluidine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Parathion (Ethyl parathion)	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	PCB-1016 (Aroclor 1016)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	P-Dimethylaminoazobenzene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Pentachlorobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Pentachloroethane	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Pentachloronitrobenzene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Pentachlorophenol	0	U		200	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Phenacetin	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Phenanthrene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Phenol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Phorate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	p-Phenylenediamine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Pronamide	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Propionitrile	0	U		1000	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Pyrene	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Pyridine	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Safrole	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Selenium, Total	2.7	J		5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Silver, Total	0	U		5	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Styrene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Sulfide	0	U		1	mg/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Sulfotepp (Thiodiphosphoric Ac	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Terpineol	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Tetrachloroethylene	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Thallium, Total	0	U		1	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Thionazin	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Tin, Total	0	U		20	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Toluene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Toxaphene	0	U		0	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	trans-1,4-Dichloro-2-butene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Trichloroethylene	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Trichlorofluoromethane	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Vanadium, Total	1.8	J		10	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Vinyl acetate	0	U		100	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Vinyl chloride	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Xylene (Total)	0	U		50	ug/L
MW-38A	MW-38A-060920	Permanent	Active	6/9/2020	5.24 - 15.24	Zinc, Total	17			10	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,1,1-Trichloroethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,1,2-Trichloroethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,1-Dichloroethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,1-Dichloroethene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,2,4-Trichlorobenzene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0			20	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,2-Dibromoethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,2-Dichlorobenzene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,2-Dichloroethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,2-Dichloropropane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,3-Dichlorobenzene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	1,4-Dichlorobenzene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	2-Hexanone	0			20	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Acetone	0			100	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Benzene	65.3		J	4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Bromoform	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Bromomethane	0			8	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Carbon tetrachloride	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Chlorobenzene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Chloroethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Chloroform	0			20	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Chloromethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	cis-1,2-Dichloroethylene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	cis-1,3-Dichloropropylene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Cumene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Cyclohexane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Dibromochloromethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Dichlorobromomethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Dichlorodifluoromethane	0			4	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Ethylbenzene	1.7	J	J	4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Methyl acetate	0			40	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Methyl ethyl ketone	0			20	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Methyl isobutenyl ketone	49.6		J	20	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Methylcyclohexane	0			40	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Methylene Chloride	0			20	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Styrene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Tetrachloroethylene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Toluene	26.7		J	4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	trans-1,2-Dichloroethylene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	trans-1,3-Dichloropropylene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Trichloroethylene	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Trichlorofluoromethane	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Vinyl acetate	0			8	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Vinyl chloride	0			4	ug/L
MW-38A	MW-38A-102820	Permanent	Active	10/28/2020	5.24 - 15.24	Xylene (Total)	14.3		J	4	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,1,1-Trichloroethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,1,2-Trichloroethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,1-Dichloroethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,1-Dichloroethene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,2-Dibromo-3-chloropropane	0	U		20	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,2-Dibromoethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,2-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,2-Dichloroethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,2-Dichloropropane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,3-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	1,4-Dichlorobenzene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	2-Hexanone	0	U		50	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Acetone	148	J		250	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Benzene	466		J	10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Bromoform	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Bromomethane	0	U		20	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Carbon tetrachloride	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Chlorobenzene	8.3	J	J	10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Chloroethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Chloroform	0	U		50	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Chloromethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Cumene	4	J	J	10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Cyclohexane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Dibromochloromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Dibromomethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Dichlorobromomethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Dichlorodifluoromethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Ethylbenzene	9.3	J	J	10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Methyl acetate	0	U		100	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Methyl ethyl ketone	0	U		50	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Methyl isobutenyl ketone	0	U		50	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Methylcyclohexane	0	U		100	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Methylene Chloride	0	U		50	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Styrene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Tetrachloroethylene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Toluene	35.7		J	10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Trichloroethylene	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Trichlorofluoromethane	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Vinyl acetate	0	U		20	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Vinyl chloride	0	U		10	ug/L
MW-38A	MW-38A-040721	Permanent	Active	4/7/2021	5.24 - 15.24	Xylene (Total)	218		J	10	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,1-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,1-Dichloroethene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,2-Dibromoethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,2-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,2-Dichloropropane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	2-Hexanone	89				ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Acetone	61				ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Benzene	34				ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Bromoform	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Bromomethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Carbon disulfide	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Carbon tetrachloride	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Chlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Chloroethane	0	U		10	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Chloromethane	0	U		10	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Cumene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Cyclohexane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Dibromochloromethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Dichlorobromomethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Dichlorodifluoromethane	0	U		10	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Ethylbenzene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	m & p-Xylenes	45				ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Methyl acetate	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Methyl ethyl ketone	0	U		50	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Methyl isobutenyl ketone	35				ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Methylcyclohexane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Methylene chloride	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	o-Xylene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Styrene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Tetrachloroethylene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Toluene	29				ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Trichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Trichlorofluoromethane	0	U		5	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B_9/23/15_NM	Permanent	Active	9/23/2015	13.9 - 18.9	Vinyl chloride	0	U		2	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,1-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,1-Dichloroethene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,2-Dibromoethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,2-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,2-Dichloropropane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	2-Hexanone	0	U		10	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Acetone	55				ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Benzene	140				ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Bromoform	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Bromomethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Carbon disulfide	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Carbon tetrachloride	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Chlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Chloroethane	0	U		10	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Chloroform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Chloromethane	0	U		10	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Cumene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Cyclohexane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Dibromochloromethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Dichlorobromomethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Dichlorodifluoromethane	0	U		10	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Ethylbenzene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	m & p-Xylenes	33				ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Methyl acetate	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Methyl ethyl ketone	0	U		50	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Methyl isobutenyl ketone	14				ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Methylcyclohexane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Methylene chloride	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	o-Xylene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Styrene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Tetrachloroethylene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Toluene	33				ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Trichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Trichlorofluoromethane	0	U		5	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B_7/26/16_NM	Permanent	Active	7/26/2016	13.9 - 18.9	Vinyl chloride	0	U		2	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,1-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,1-Dichloroethene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,2-Dibromoethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,2-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,2-Dichloropropane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	2-Hexanone	0	U		10	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Acetone	15	J		50	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Benzene	400			200	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Bromoform	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Bromomethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Carbon disulfide	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Chlorobenzene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Chloroethane	0	U		10	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Chloromethane	0	U		10	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Cumene	4.6	J		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Cyclohexane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Dibromochloromethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Dichlorobromomethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Dichlorodifluoromethane	0	U		10	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Ethylbenzene	4.4	J		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	m & p-Xylenes	66			5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Methyl acetate	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Methyl ethyl ketone	5.7	J		50	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Methyl isobutenyl ketone	19			10	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Methylcyclohexane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Methylene chloride	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	o-Xylene	7.2			5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Styrene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Tetrachloroethylene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Toluene	93			5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Trichloroethylene	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Trichlorofluoromethane	0	U		5	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B_12/13/16_NM	Permanent	Active	12/13/2016	13.9 - 18.9	Vinyl chloride	0	U		2	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,1,1-Trichloroethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,1,2-Trichloroethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,1-Dichloroethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,1-Dichloroethene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U	UJ	50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,2-Dibromoethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,2-Dichlorobenzene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,2-Dichloroethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,2-Dichloropropane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,3-Dichlorobenzene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	1,4-Dichlorobenzene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	2-Hexanone	0	U	UJ	100	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Acetone	0	U		500	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Benzene	370			50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Bromoform	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Bromomethane	0	U	UJ	50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Carbon disulfide	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Carbon tetrachloride	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Chlorobenzene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Chloroethane	0	U		100	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Chloroform	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Chloromethane	0	U		100	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U	UJ	50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Cumene	14	J		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Cyclohexane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Dibromochloromethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Dichlorobromomethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Dichlorodifluoromethane	0	U		100	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Ethylbenzene	0	U	UJ	50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	m & p-Xylenes	77		J	50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Methyl acetate	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Methyl ethyl ketone	0	U	UJ	500	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Methyl isobutenyl ketone	0	U		100	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Methylcyclohexane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Methylene chloride	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	o-Xylene	22	J	J	50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Styrene	0	U	UJ	50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Tetrachloroethylene	0	U	UJ	50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Toluene	98			50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Trichloroethylene	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Trichlorofluoromethane	0	U		50	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Trichlorotrifluoroethane	0	U		100	ug/L
MW-38B	MW-38B-032617	Permanent	Active	3/26/2017	13.9 - 18.9	Vinyl chloride	0	U		20	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,1-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,1-Dichloroethene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,2-Dibromoethane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,2-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,2-Dichloropropane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	2-Hexanone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Acetone	14	J		50	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Benzene	120			5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Bromoform	0	U	UJ	5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Bromomethane	0	U	UJ	5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Carbon disulfide	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Chlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Chloroethane	0	U		10	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Chloromethane	0	U		10	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Cumene	3.1	J		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Cyclohexane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Dibromochloromethane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Dichlorobromomethane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Dichlorodifluoromethane	0	U		10	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Ethylbenzene	3.7	J		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	m & p-Xylenes	82			5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Methyl acetate	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Methyl ethyl ketone	0	U		50	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Methylcyclohexane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Methylene chloride	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	o-Xylene	7.6			5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Styrene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Tetrachloroethylene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Toluene	130			5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Trichloroethylene	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Trichlorofluoromethane	0	U		5	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B-061417	Permanent	Active	6/14/2017	13.9 - 18.9	Vinyl chloride	0	U		2	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,1-Dichloroethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,1-Dichloroethene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,2-Dibromoethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,2-Dichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,2-Dichloropropane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	2-Hexanone	0	U		25	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Acetone	32		J-	25	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Benzene	442		J-	5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Bromoform	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Bromomethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Carbon disulfide	0	U		25	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Carbon tetrachloride	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Chlorobenzene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Chloroethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Chloromethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Cumene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Cyclohexane	0	U		25	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Dibromochloromethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Dichlorobromomethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Dichlorodifluoromethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Ethylbenzene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	m & p-Xylenes	170		J-	10	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Methyl acetate	0	U		25	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Methyl ethyl ketone	0	U		25	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Methyl isobutenyl ketone	0	U		25	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Methylcyclohexane	0	U		25	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Methylene Chloride	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	o-Xylene	17		J-	5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Styrene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Tetrachloroethylene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Toluene	647		J-	5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Trichloroethylene	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Trichlorofluoromethane	0	U		5	ug/L
MW-38B	MW-38B-092917	Permanent	Active	9/29/2017	13.9 - 18.9	Vinyl chloride	0	U		5	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,1,1-Trichloroethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,1,2-Trichloroethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,1-Dichloroethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,1-Dichloroethene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,2-Dibromoethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,2-Dichlorobenzene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,2-Dichloroethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,2-Dichloropropane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,3-Dichlorobenzene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	1,4-Dichlorobenzene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	2-Hexanone	0	U		10	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Acetone	22			10	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Benzene	247			2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Bromoform	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Carbon disulfide	0	U		10	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Carbon tetrachloride	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Chlorobenzene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Chloroethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Chloroform	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Chloromethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Cumene	2.3			2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Cyclohexane	0	U		10	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Dibromochloromethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Dichlorobromomethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Dichlorodifluoromethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Ethylbenzene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	m & p-Xylenes	112			4	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Methyl ethyl ketone	0	U		10	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Methylene Chloride	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	o-Xylene	11			2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Styrene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Tetrachloroethylene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Toluene	200			2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Trichloroethylene	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Trichlorofluoromethane	0	U		2	ug/L
MW-38B	MW-38B-120217	Permanent	Active	12/2/2017	13.9 - 18.9	Vinyl chloride	0	U		2	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,1-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,1-Dichloroethene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,2-Dibromoethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,2-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,2-Dichloropropane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	2-Hexanone	0	U		5	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Acetone	0	U		25	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Benzene	220			10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Bromodichloromethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Bromoform	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Carbon disulfide	0	U		10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Carbon tetrachloride	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Chlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Chloroethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Chloroform	8.9			1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Chloromethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Cumene	0	U		10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Cyclohexane	0	U		10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Dibromochloromethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Ethylbenzene	5.9			1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	m & p-Xylenes	165			1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Methyl ethyl ketone	0	U		5	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Methylene Chloride	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	o-Xylene	15.3			1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Styrene	4.6			1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Tetrachloroethylene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Toluene	225			10	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Trichloroethylene	4.7			1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Trichlorofluoromethane	0	U		1	ug/L
MW-38B	MW-38B-022318	Permanent	Active	2/23/2018	13.9 - 18.9	Vinyl chloride	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,1-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,1-Dichloroethene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,2-Dibromoethane	0	U		2	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,2-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,2-Dichloropropane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	2-Hexanone	0	U		5	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Acetone	0	U		25	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Benzene	119			1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Bromoform	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Carbon disulfide	0	U		10	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Carbon tetrachloride	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Chlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Chloroethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Chloroform	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Chloromethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	cis-1,2-Dichloroethylene	1.6			1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Cumene	0	U		10	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Cyclohexane	0	U		10	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Dibromochloromethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Dichlorobromomethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Ethylbenzene	5.2			1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	m & p-Xylenes	130			1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Methyl ethyl ketone	0	U		5	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Methylene Chloride	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	o-Xylene	12.5			1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Styrene	2.1			1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Tetrachloroethylene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Toluene	164			10	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Trichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Trichlorofluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-051118	Permanent	Active	5/11/2018	13.9 - 18.9	Vinyl chloride	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,1-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,1-Dichloroethene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,2-Dibromoethane	0	U		2	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,2-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,2-Dichloropropane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	2-Hexanone	0	U		5	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Acetone	30.7		J	25	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Benzene	47.9			1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Bromoform	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Carbon disulfide	0	U		10	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Carbon tetrachloride	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Chlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Chloroethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Chloroform	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Chloromethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Cumene	0	U		10	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Cyclohexane	0	U		10	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Dibromochloromethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Dichlorobromomethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Ethylbenzene	2.5			1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	m & p-Xylenes	66.3			1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Methyl ethyl ketone	0	U		5	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Methylene Chloride	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	o-Xylene	6.4			1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Styrene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Tetrachloroethylene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Toluene	64.1			1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Trichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Trichlorofluoromethane	0	U		1	ug/L
MW-38B	MW-38B-080318	Permanent	Active	8/3/2018	13.9 - 18.9	Vinyl chloride	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,1-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,1-Dichloroethene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,2-Dibromoethane	0	U		2	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,2-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,2-Dichloropropane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	2-Hexanone	9.1			5	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Acetone	35.2			25	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Benzene	82.6			1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Bromoform	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Carbon disulfide	0	U		10	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Carbon tetrachloride	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Chlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Chloroethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Chloroform	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Chloromethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Cumene	0	U		10	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Cyclohexane	0	U		10	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Dibromochloromethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Dichlorobromomethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Ethylbenzene	6.5			1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	m & p-Xylenes	180			1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Methyl ethyl ketone	0	U		5	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Methyl isobutenyl ketone	19.9			5	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Methylene Chloride	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	o-Xylene	18.4			1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Styrene	3.1			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Tetrachloroethylene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Toluene	111			1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Trichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Trichlorofluoromethane	0	U		1	ug/L
MW-38B	MW-38B-042519	Permanent	Active	4/25/2019	13.9 - 18.9	Vinyl chloride	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,1-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,1-Dichloroethene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,2-Dibromoethane	0	U		2	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,2-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,2-Dichloropropane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	2-Hexanone	0	U		5	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Acetone	28.7			25	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Benzene	24.5			1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Bromoform	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Carbon disulfide	0	U		10	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Carbon tetrachloride	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Chlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Chloroethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Chloroform	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Chloromethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Cumene	0	U		10	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Cyclohexane	0	U		10	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Dibromochloromethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Dichlorobromomethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Ethylbenzene	4			1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	m & p-Xylenes	39.6			1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Methyl ethyl ketone	0	U		5	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Methylene Chloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	o-Xylene	6.6			1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Styrene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Tetrachloroethylene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Toluene	10.4			1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Trichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Trichlorofluoromethane	0	U		1	ug/L
MW-38B	MW-38B-112219	Permanent	Active	11/22/2019	13.9 - 18.9	Vinyl chloride	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,1-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,1-Dichloroethene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,2-Dibromoethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,2-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,2-Dichloropropane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	2-Hexanone	0	U		5	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Acetone	0	U		25	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Benzene	12.7			1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Bromoform	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Carbon disulfide	0	U		2	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Carbon tetrachloride	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Chlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Chloroethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Chloromethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Cumene	1.5			1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Cyclohexane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Dibromochloromethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Dichlorobromomethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Ethylbenzene	1.8			1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	m & p-Xylenes	13.1			2	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Methyl ethyl ketone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Methylene Chloride	0	U		5	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	o-Xylene	2.4			1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Styrene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Tetrachloroethylene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Toluene	3.5			1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Trichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Trichlorofluoromethane	0	U		1	ug/L
MW-38B	MW-38B-042920	Permanent	Active	4/29/2020	13.9 - 18.9	Vinyl chloride	0	U		1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,1,1-Trichloroethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,1,2-Trichloroethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,1-Dichloroethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,1-Dichloroethene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,2,4-Trichlorobenzene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,2-Dibromoethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,2-Dichlorobenzene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,2-Dichloroethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,2-Dichloropropane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,3-Dichlorobenzene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	1,4-Dichlorobenzene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	2-Hexanone	0			5	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Acetone	10.2	J	J	25	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Benzene	26.9		J	1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Bromoform	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Bromomethane	0			2	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Carbon tetrachloride	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Chlorobenzene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Chloroethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Chloroform	0			5	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Chloromethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	cis-1,2-Dichloroethylene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	cis-1,3-Dichloropropylene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Cumene	2.6		J	1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Cyclohexane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Dibromochloromethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Dichlorobromomethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Dichlorodifluoromethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Ethylbenzene	2.2		J	1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Methyl acetate	0			10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Methyl ethyl ketone	0			5	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Methyl isobutenyl ketone	0			5	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Methylcyclohexane	0			10	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Methylene Chloride	0			5	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Styrene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Tetrachloroethylene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Toluene	7.2		J	1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	trans-1,2-Dichloroethylene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	trans-1,3-Dichloropropylene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Trichloroethylene	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Trichlorofluoromethane	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Vinyl acetate	0			2	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Vinyl chloride	0			1	ug/L
MW-38B	MW-38B-102820	Permanent	Active	10/28/2020	13.9 - 18.9	Xylene (Total)	14.7		J	1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,1-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,1-Dichloroethene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,2-Dibromoethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,2-Dichloroethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,2-Dichloropropane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	2-Hexanone	0	U		5	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Acetone	0	U		25	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Benzene	35.6			1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Bromoform	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Bromomethane	0	U		2	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Carbon tetrachloride	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Chlorobenzene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Chloroethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Chloroform	0	U		5	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Chloromethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Cumene	2.1			1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Cyclohexane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Dibromochloromethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Dibromomethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Dichlorobromomethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Ethylbenzene	2.3			1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Methyl acetate	0	U		10	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Methyl ethyl ketone	0	U		5	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Methylcyclohexane	0	U		10	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Methylene Chloride	0	U		5	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Styrene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Tetrachloroethylene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Toluene	4.3			1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Trichloroethylene	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Trichlorofluoromethane	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Vinyl acetate	0	U		2	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Vinyl chloride	0	U		1	ug/L
MW-38B	MW-38B-040721	Permanent	Active	4/7/2021	13.9 - 18.9	Xylene (Total)	37.3			1	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,1-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,1-Dichloroethene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,2-Dibromoethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,2-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,2-Dichloropropane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	2-Hexanone	1200				ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Acetone	260				ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Benzene	100				ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Bromoform	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Bromomethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Carbon disulfide	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Carbon tetrachloride	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Chlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Chloroethane	0	U		10	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Chloroform	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Chloromethane	0	U		10	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Cumene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Cyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Dibromochloromethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Dichlorobromomethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Dichlorodifluoromethane	0	U		10	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Ethylbenzene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	m & p-Xylenes	70				ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Methyl acetate	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Methyl ethyl ketone	140				ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Methyl isobutenyl ketone	340				ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Methylcyclohexane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Methylene chloride	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	o-Xylene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Styrene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Tetrachloroethylene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Toluene	66				ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Trichloroethylene	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Trichlorofluoromethane	0	U		5	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C_9/23/15_NM	Permanent	Active	9/23/2015	18.4 - 23.4	Vinyl chloride	0	U		2	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,1-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,1-Dichloroethene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,2-Dibromoethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,2-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,2-Dichloropropane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	2-Hexanone	340				ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Acetone	1400				ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Benzene	49				ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Bromoform	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Bromomethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Carbon disulfide	270				ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Carbon tetrachloride	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Chlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Chloroethane	0	U		10	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Chloroform	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Chloromethane	0	U		10	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Cumene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Cyclohexane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Dibromochloromethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Dichlorobromomethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Dichlorodifluoromethane	0	U		10	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Ethylbenzene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	m & p-Xylenes	31				ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Methyl acetate	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Methyl ethyl ketone	0	U		50	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Methyl isobutenyl ketone	120				ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Methylcyclohexane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Methylene chloride	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	o-Xylene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Styrene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Tetrachloroethylene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Toluene	35				ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Trichloroethylene	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Trichlorofluoromethane	0	U		5	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C_7/26/16_NM	Permanent	Active	7/26/2016	18.4 - 23.4	Vinyl chloride	0	U		2	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,1-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,1-Dichloroethene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,2-Dibromoethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,2-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,2-Dichloropropane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	2-Hexanone	200			10	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Acetone	120			50	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Benzene	170			5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Bromoform	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Bromomethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Carbon disulfide	37			5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Carbon tetrachloride	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Chlorobenzene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Chloroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Chloroform	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Chloromethane	0	U		10	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Cumene	3.6	J		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Cyclohexane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Dibromochloromethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Dichlorobromomethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Dichlorodifluoromethane	0	U		10	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Ethylbenzene	2.4	J		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	m & p-Xylenes	22			5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Methyl acetate	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Methyl ethyl ketone	13	J		50	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Methyl isobutenyl ketone	140			10	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Methylcyclohexane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Methylene chloride	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	o-Xylene	3.3	J		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Styrene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Tetrachloroethylene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Toluene	21			5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Trichloroethylene	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Trichlorofluoromethane	0	U		5	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C_12/13/16_NM	Permanent	Active	12/13/2016	18.4 - 23.4	Vinyl chloride	0	U		2	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,1-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,1-Dichloroethene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,2-Dibromoethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,2-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,2-Dichloropropane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	2-Hexanone	35			10	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Acetone	36	J		50	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Benzene	170			5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Bromoform	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Bromomethane	0	U	UJ	5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Carbon disulfide	29			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Carbon tetrachloride	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Chlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Chloroethane	0	U		10	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Chloroform	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Chloromethane	0	U		10	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Cumene	4.1	J		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Cyclohexane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Dibromochloromethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Dichlorobromomethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Dichlorodifluoromethane	0	U		10	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Ethylbenzene	2.2	J	J	5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	m & p-Xylenes	30		J	5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Methyl acetate	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Methyl ethyl ketone	0	U		50	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Methyl isobutenyl ketone	150			10	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Methylcyclohexane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Methylene chloride	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	o-Xylene	5.1		J	5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Styrene	0	U	UJ	5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Tetrachloroethylene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Toluene	33			5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Trichloroethylene	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Trichlorofluoromethane	0	U		5	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C-032617	Permanent	Active	3/26/2017	18.4 - 23.4	Vinyl chloride	0	U		2	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,1-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,1-Dichloroethene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,2-Dibromoethane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,2-Dichloroethane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,2-Dichloropropane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	2-Hexanone	0	U	UJ	10	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Acetone	54		J	50	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Benzene	120			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Bromoform	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Bromomethane	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Carbon disulfide	18			5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Chlorobenzene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Chloroethane	0	U		10	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Chloroform	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Chloromethane	0	U		10	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Cumene	3.2	J		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Cyclohexane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Dibromochloromethane	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Dichlorobromomethane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Dichlorodifluoromethane	0	U		10	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Ethylbenzene	2.1	J		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	m & p-Xylenes	44			5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Methyl acetate	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Methyl ethyl ketone	7	J		50	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Methyl isobutenyl ketone	160			10	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Methylcyclohexane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Methylene chloride	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	o-Xylene	3.9	J		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Styrene	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Tetrachloroethylene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Toluene	22			5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Trichloroethylene	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Trichlorofluoromethane	0	U		5	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C-061317	Permanent	Active	6/13/2017	18.4 - 23.4	Vinyl chloride	0	U		2	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,1-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,1-Dichloroethene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,2-Dibromoethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,2-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,2-Dichloropropane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,3-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	2-Hexanone	6.3			5	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Acetone	89			5	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Benzene	86			1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Bromoform	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Bromomethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Carbon disulfide	12.1		J	5	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Carbon tetrachloride	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Chlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Chloroethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Chloroform	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Chloromethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Cumene	3.7			1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Cyclohexane	0	U		5	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Dibromochloromethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Dichlorobromomethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Dichlorodifluoromethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Ethylbenzene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	m & p-Xylenes	42.1			2	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Methyl acetate	0	U		5	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Methyl ethyl ketone	12.7			5	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Methyl isobutenyl ketone	124			5	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Methylcyclohexane	0	U		5	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Methylene Chloride	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	o-Xylene	3.3			1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Styrene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Tetrachloroethylene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Toluene	21.6			1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Trichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Trichlorofluoromethane	0	U		1	ug/L
MW-38C	MW-38C-092917	Permanent	Active	9/29/2017	18.4 - 23.4	Vinyl chloride	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,1-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,1-Dichloroethene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,2-Dibromoethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,2-Dichlorobenzene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,2-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,2-Dichloropropane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	2-Hexanone	0	U		5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Acetone	17.4			5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Acetone	17.8			5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Benzene	81.5			1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Benzene	79.4			1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Bromoform	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Bromomethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Carbon disulfide	0	U		5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Carbon tetrachloride	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Chlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Chloroethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Chloroform	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Chloromethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Cumene	2.9			1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Cumene	2.7			1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Cyclohexane	0	U		5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Dibromochloromethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Dichlorobromomethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Dichlorodifluoromethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Ethylbenzene	1.2			1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Ethylbenzene	1.1			1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	m & p-Xylenes	16.9			2	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	m & p-Xylenes	17.6			2	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Methyl acetate	0	U		5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Methyl ethyl ketone	0	U		5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Methyl isobutenyl ketone	20			5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Methyl isobutenyl ketone	18			5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Methylcyclohexane	0	U		5	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Methylene Chloride	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	o-Xylene	1.9			1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Styrene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Tetrachloroethylene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Toluene	8.2			1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Trichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Trichlorofluoromethane	0	U		1	ug/L
MW-38C	MW-38C-120117	Permanent	Active	12/1/2017	18.4 - 23.4	Vinyl chloride	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,1,1-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,1-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,1-Dichloroethene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,2-Dibromoethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,2-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,2-Dichloropropane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	2-Hexanone	0	U		5	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Acetone	41.3		J	25	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Benzene	64.2			1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Bromodichloromethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Bromoform	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Bromomethane	0	U		2	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Carbon disulfide	0	U		10	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Carbon tetrachloride	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Chlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Chloroethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Chloroform	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Chloromethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Cumene	0	U		10	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Cyclohexane	0	U		10	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Dibromochloromethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Dichlorodifluoromethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Ethylbenzene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	m & p-Xylenes	23.8			1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Methyl acetate	0	U		10	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Methyl ethyl ketone	5.3			5	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Methyl isobutenyl ketone	31.4			5	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Methylcyclohexane	0	U		10	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Methylene Chloride	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	o-Xylene	3.7			1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Styrene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Tetrachloroethylene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Toluene	8.7			1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Trichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Trichlorofluoromethane	0	U		1	ug/L
MW-38C	MW-38C-022318	Permanent	Active	2/23/2018	18.4 - 23.4	Vinyl chloride	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,1-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,1-Dichloroethene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,2-Dibromoethane	0	U		2	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,2-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,2-Dichloropropane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	2-Hexanone	0	U		5	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Acetone	53.9			25	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Benzene	66.9			1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Bromoform	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Bromomethane	0	U		2	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Carbon disulfide	0	U		10	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Carbon tetrachloride	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Chlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Chloroethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Chloroform	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Chloromethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Cumene	0	U		10	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Cyclohexane	0	U		10	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Dibromochloromethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Dichlorobromomethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Dichlorodifluoromethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Ethylbenzene	1			1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	m & p-Xylenes	13.2			1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Methyl acetate	0	U		10	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Methyl ethyl ketone	0	U		5	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Methylcyclohexane	0	U		10	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Methylene Chloride	3.5			1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	o-Xylene	2.1			1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Styrene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Tetrachloroethylene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Toluene	7.1			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Trichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Trichlorofluoromethane	0	U		1	ug/L
MW-38C	MW-38C-051118	Permanent	Active	5/11/2018	18.4 - 23.4	Vinyl chloride	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,1-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,1-Dichloroethene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,2-Dibromoethane	0	U		2	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,2-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,2-Dichloropropane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	2-Hexanone	0	U		5	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Acetone	31.3		J	25	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Benzene	33.6			1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Bromoform	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Bromomethane	0	U		2	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Carbon disulfide	0	U		10	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Carbon tetrachloride	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Chlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Chloroethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Chloroform	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Chloromethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Cumene	0	U		10	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Cyclohexane	0	U		10	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Dibromochloromethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Dichlorobromomethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Dichlorodifluoromethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Ethylbenzene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	m & p-Xylenes	5.5			1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Methyl acetate	0	U		10	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Methyl ethyl ketone	0	U		5	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Methylcyclohexane	0	U		10	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Methylene Chloride	1.2			1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	o-Xylene	1.1			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Styrene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Tetrachloroethylene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Toluene	3.7			1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Trichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Trichlorofluoromethane	0	U		1	ug/L
MW-38C	MW-38C-080318	Permanent	Active	8/3/2018	18.4 - 23.4	Vinyl chloride	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,1-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,1-Dichloroethene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,2-Dibromoethane	0	U		2	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,2-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,2-Dichloropropane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	2-Hexanone	0	U		5	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Acetone	44.7			25	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Benzene	101			1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Bromoform	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Bromomethane	0	U		2	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Carbon disulfide	0	U		10	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Carbon tetrachloride	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Chlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Chloroethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Chloroform	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Chloromethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Cumene	0	U		10	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Cyclohexane	0	U		10	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Dibromochloromethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Dichlorobromomethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Dichlorodifluoromethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Ethylbenzene	1.4			1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	m & p-Xylenes	15.1			1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Methyl acetate	0	U		10	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Methyl ethyl ketone	0	U		5	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Methylcyclohexane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Methylene Chloride	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	o-Xylene	3.3			1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Styrene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Tetrachloroethylene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Toluene	8.4			1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Trichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Trichlorofluoromethane	0	U		1	ug/L
MW-38C	MW-38C-042619	Permanent	Active	4/26/2019	18.4 - 23.4	Vinyl chloride	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,1-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,1-Dichloroethene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,2-Dibromoethane	0	U		2	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,2-Dichloroethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,2-Dichloropropane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	2-Hexanone	0	U		5	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Acetone	87.5			25	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Benzene	95.6			1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Bromoform	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Bromomethane	0	U		2	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Carbon disulfide	0	U		10	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Carbon tetrachloride	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Chlorobenzene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Chloroethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Chloroform	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Chloromethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Cumene	0	U		10	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Cyclohexane	0	U		10	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Dibromochloromethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Dichlorobromomethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Dichlorodifluoromethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Ethylbenzene	2.7			1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	m & p-Xylenes	42.5			1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Methyl acetate	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Methyl ethyl ketone	0	U		5	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Methylcyclohexane	0	U		10	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Methylene Chloride	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	o-Xylene	6			1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Styrene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Tetrachloroethylene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Toluene	12.9			1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Trichloroethylene	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Trichlorofluoromethane	0	U		1	ug/L
MW-38C	MW-38C-112219	Permanent	Active	11/22/2019	18.4 - 23.4	Vinyl chloride	0	U		1	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,1,1-Trichloroethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,1,2-Trichloroethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,1,2-Trichlorotrifluoroethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,1-Dichloroethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,1-Dichloroethene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		20	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,2-Dibromoethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,2-Dichlorobenzene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,2-Dichloroethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,2-Dichloropropane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,3-Dichlorobenzene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	1,4-Dichlorobenzene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	2-Hexanone	0	U		20	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Acetone	0	U		100	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Benzene	30.9		J	4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Bromoform	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Bromomethane	0	U		8	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Carbon disulfide	0	U		8	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Carbon tetrachloride	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Chlorobenzene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Chloroethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Chloroform	0	U		20	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Chloromethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Cumene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Cyclohexane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Dibromochloromethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Dichlorobromomethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Dichlorodifluoromethane	0	U		4	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Ethylbenzene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	m & p-Xylenes	20.4		J	8	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Methyl acetate	0	U		40	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Methyl ethyl ketone	0	U		20	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Methyl isobutenyl ketone	0	U		20	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Methylcyclohexane	0	U		40	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Methylene Chloride	0	U		20	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	o-Xylene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Styrene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Tetrachloroethylene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Toluene	8.2		J	4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Trichloroethylene	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Trichlorofluoromethane	0	U		4	ug/L
MW-38C	MW-38C-042920	Permanent	Active	4/29/2020	18.4 - 23.4	Vinyl chloride	0	U		4	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,1,1-Trichloroethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,1,2-Trichloroethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,1,2-Trichlorotrifluoroethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,1-Dichloroethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,1-Dichloroethene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,2,4-Trichlorobenzene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0			10	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,2-Dibromoethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,2-Dichlorobenzene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,2-Dichloroethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,2-Dichloropropane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,3-Dichlorobenzene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	1,4-Dichlorobenzene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	2-Hexanone	0			10	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Acetone	0			50	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Benzene	26.8			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Bromoform	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Bromomethane	0			4	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Carbon tetrachloride	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Chlorobenzene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Chloroethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Chloroform	0			10	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Chloromethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	cis-1,2-Dichloroethylene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	cis-1,3-Dichloropropylene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Cumene	2.5			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Cyclohexane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Dibromochloromethane	0			2	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Dichlorobromomethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Dichlorodifluoromethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Ethylbenzene	1.9	J		2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Methyl acetate	0			20	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Methyl ethyl ketone	0			10	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Methyl isobutenyl ketone	0			10	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Methylcyclohexane	0			20	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Methylene Chloride	0			10	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Styrene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Tetrachloroethylene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Toluene	6.4			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	trans-1,2-Dichloroethylene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	trans-1,3-Dichloropropylene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Trichloroethylene	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Trichlorofluoromethane	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Vinyl acetate	0			4	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Vinyl chloride	0			2	ug/L
MW-38C	MW-38C-102820	Permanent	Active	10/28/2020	18.4 - 23.4	Xylene (Total)	26.6			2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,1,1-Trichloroethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,1,2-Trichloroethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,1,2-Trichlorotrifluoroethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,1-Dichloroethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,1-Dichloroethene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,2-Dibromo-3-chloropropane	0	U		4	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,2-Dibromoethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,2-Dichlorobenzene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,2-Dichloroethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,2-Dichloropropane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,3-Dichlorobenzene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	1,4-Dichlorobenzene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	2-Hexanone	0	U		10	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Acetone	0	U		50	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Benzene	8.5			2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Bromoform	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Bromomethane	0	U		4	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Carbon tetrachloride	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Chlorobenzene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Chloroethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Chloroform	0	U		10	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Chloromethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	cis-1,2-Dichloroethylene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Cumene	2.1			2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Cyclohexane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Dibromochloromethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Dibromomethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Dichlorobromomethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Dichlorodifluoromethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Ethylbenzene	1.3	J		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Methyl acetate	0	U		20	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Methyl ethyl ketone	0	U		10	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Methylcyclohexane	0	U		20	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Methylene Chloride	0	U		10	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Styrene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Tetrachloroethylene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Toluene	5.3			2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Trichloroethylene	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Trichlorofluoromethane	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Vinyl acetate	0	U		4	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Vinyl chloride	0	U		2	ug/L
MW-38C	MW-38C-040721	Permanent	Active	4/7/2021	18.4 - 23.4	Xylene (Total)	9.8			2	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,1-Dichloroethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,1-Dichloroethene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,2-Dibromoethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,2-Dichloroethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,2-Dichloropropane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	2-Hexanone	0	U		10	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Acetone	120				ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Benzene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Bromoform	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Bromomethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Carbon disulfide	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Carbon tetrachloride	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Chlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Chloroethane	0	U		10	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Chloroform	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Chloromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Cumene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Cyclohexane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Dibromochloromethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Dichlorobromomethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Dichlorodifluoromethane	0	U		10	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Ethylbenzene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	m & p-Xylenes	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Methyl acetate	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Methyl ethyl ketone	0	U		50	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Methylcyclohexane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Methylene chloride	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	o-Xylene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Styrene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Tetrachloroethylene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Toluene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Trichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Trichlorofluoromethane	0	U		5	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38D	MW-38D_10/8/15_NM	Permanent	Active	10/8/2015	33.75 - 38.75	Vinyl chloride	0	U		2	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,1-Dichloroethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,1-Dichloroethene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,2-Dibromoethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,2-Dichloroethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,2-Dichloropropane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	2-Hexanone	0	U		10	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Acetone	67				ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Benzene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Bromoform	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Bromomethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Carbon disulfide	17				ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Carbon tetrachloride	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Chlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Chloroethane	0	U		10	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Chloroform	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Chloromethane	0	U		10	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Cumene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Cyclohexane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Dibromochloromethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Dichlorobromomethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Dichlorodifluoromethane	0	U		10	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Ethylbenzene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	m & p-Xylenes	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Methyl acetate	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Methyl ethyl ketone	0	U		50	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Methylcyclohexane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Methylene chloride	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	o-Xylene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Styrene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Tetrachloroethylene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Toluene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Trichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Trichlorofluoromethane	0	U		5	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38D	MW-38D_7/26/16_NM	Permanent	Active	7/26/2016	33.75 - 38.75	Vinyl chloride	0	U		2	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,1,1-Trichloroethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,1,2-Trichloroethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,1-Dichloroethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,1-Dichloroethene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,2-Dibromoethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,2-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,2-Dichloroethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,2-Dichloropropane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,3-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	1,4-Dichlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	2-Hexanone	0	U		10	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Acetone	23	J		50	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Benzene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Bromoform	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Bromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Carbon disulfide	7.1			5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Carbon tetrachloride	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Chlorobenzene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Chloroethane	0	U		10	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Chloroform	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Chloromethane	0	U		10	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Cumene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Cyclohexane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Dibromochloromethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Dichlorobromomethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Dichlorodifluoromethane	0	U		10	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Ethylbenzene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	m & p-Xylenes	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Methyl acetate	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Methyl ethyl ketone	0	U		50	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Methyl isobutenyl ketone	0	U		10	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Methylcyclohexane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Methylene chloride	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	o-Xylene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Styrene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Tetrachloroethylene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Toluene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Trichloroethylene	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Trichlorofluoromethane	0	U		5	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Trichlorotrifluoroethane	0	U		10	ug/L
MW-38D	MW-38D_12/13/16_NM	Permanent	Active	12/13/2016	33.75 - 38.75	Vinyl chloride	0	U		2	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,1-Dichloroethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,1-Dichloroethene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,2-Dibromoethane	0	U		2	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,2-Dichloroethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,2-Dichloropropane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	2-Hexanone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Acetone	0	U		25	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Benzene	5.2			1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Bromoform	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Bromomethane	0	U		2	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Carbon disulfide	0	U		10	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Carbon tetrachloride	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Chlorobenzene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Chloroethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Chloroform	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Chloromethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Cumene	0	U		10	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Cyclohexane	0	U		10	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Dibromochloromethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Dichlorobromomethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Ethylbenzene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	m & p-Xylenes	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Methyl acetate	0	U		10	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Methyl ethyl ketone	0	U		5	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Methylcyclohexane	0	U		10	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Methylene Chloride	1			1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	o-Xylene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Styrene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Tetrachloroethylene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Toluene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Trichloroethylene	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Trichlorofluoromethane	0	U		1	ug/L
MW-38D	MW-38D-080318	Permanent	Active	8/3/2018	33.75 - 38.75	Vinyl chloride	0	U		1	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Acetone	0	U		50	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Benzene	89				ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Cumene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	m & p-Xylenes	19				ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Styrene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Toluene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39_7/29/15_NM	Permanent	Abandoned	7/29/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	2-Hexanone	0	U		10	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Acetone	0	U		50	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Benzene	1100				ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Bromoform	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Bromomethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Chloroethane	0	U		10	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Chloroform	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Chloromethane	0	U		10	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Cumene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Cyclohexane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	m & p-Xylenes	150				ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methyl acetate	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methylene chloride	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	o-Xylene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Styrene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Toluene	77				ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	2-Hexanone	0	U		10	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Acetone	0	U		50	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Benzene	1200				ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Bromoform	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Bromomethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Chloroethane	0	U		10	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Chloroform	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Chloromethane	0	U		10	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Cumene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Cyclohexane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Ethylbenzene	7.7				ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	m & p-Xylenes	140				ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Methyl acetate	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Methyl isobutenyl ketone	41				ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Methylene chloride	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	o-Xylene	10				ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Styrene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Toluene	40				ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39_8/22/16_NM	Permanent	Abandoned	8/22/2016	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2,4-Trichlorobenzene	0	U	UJ	5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	2-Hexanone	0	U		10	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Acetone	91			50	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Benzene	720		J	250	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Bromoform	0	U	UJ	5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Bromomethane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Cumene	4	J		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Dibromochloromethane	0	U	UJ	5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Ethylbenzene	6			5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	m & p-Xylenes	14			5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methyl isobutenyl ketone	11			10	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	o-Xylene	4.2	J		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Styrene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Toluene	2.7	J		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39-032417	Permanent	Abandoned	3/24/2017	2 - 12	Vinyl chloride	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	2-Hexanone	0	U	UJ	10	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Acetone	62			50	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Benzene	840			50	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Bromoform	0	U	UJ	5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Bromomethane	0	U	UJ	5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Cumene	4.7	J		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Dibromochloromethane	0	U	UJ	5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Ethylbenzene	7.2			5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	m & p-Xylenes	83			5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Methyl isobutenyl ketone	11			10	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	o-Xylene	8.6			5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Styrene	0	U	UJ	5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Toluene	33			5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39-061317	Permanent	Abandoned	6/13/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	2-Hexanone	0	U		25	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Acetone	113			25	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Benzene	711			5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Bromoform	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Bromomethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Carbon disulfide	0	U		25	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Chloroethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Chloromethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Cumene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Cyclohexane	0	U		25	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Dichlorodifluoromethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Ethylbenzene	8			5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	m & p-Xylenes	106			10	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methyl acetate	0	U		25	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methyl ethyl ketone	0	U		25	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methyl isobutenyl ketone	55.9			25	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methylcyclohexane	0	U		25	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	o-Xylene	12			5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Styrene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Toluene	46.6			5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-39	MW-39-092917	Permanent	Abandoned	9/29/2017	2 - 12	Vinyl chloride	0	U		5	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,1,1-Trichloroethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,1,2-Trichloroethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,1-Dichloroethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,1-Dichloroethene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,2-Dichlorobenzene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,2-Dichloroethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,2-Dichloropropane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,3-Dichlorobenzene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	1,4-Dichlorobenzene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	2-Hexanone	0	U		12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Acetone	37.2			12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Acetone	45.5			12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Benzene	340			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Benzene	307			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Bromoform	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Bromomethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Carbon disulfide	0	U		12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Carbon tetrachloride	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Chlorobenzene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Chloroethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Chloroform	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Chloromethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Cumene	3.3			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Cumene	3			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Cyclohexane	0	U		12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Dibromochloromethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Dichlorobromomethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Dichlorodifluoromethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Ethylbenzene	4.3			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Ethylbenzene	4.2			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	m & p-Xylenes	53.3			5	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	m & p-Xylenes	46.6			5	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Methyl acetate	0	U		12	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Methyl ethyl ketone	0	U		12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Methyl isobutenyl ketone	0	U		12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Methyl isobutenyl ketone	37		J	12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Methylcyclohexane	0	U		12	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Methylene Chloride	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	o-Xylene	7.1			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	o-Xylene	6.1			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Styrene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Tetrachloroethylene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Toluene	19.2			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Toluene	17.3			2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Trichloroethylene	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Trichlorofluoromethane	0	U		2	ug/L
MW-39	MW-39-120217	Permanent	Abandoned	12/2/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,1,2,2-Tetrachloroethane	96.7		J	1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Acetone	80.3		J	25	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Benzene	453		J	10	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Bromodichloromethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Chloroform	1.6		J	1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Cumene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Ethylbenzene	5.2		J	1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	m & p-Xylenes	49.9		J	1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Methyl isobutenyl ketone	71.9		J	5	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	o-Xylene	8.9		J	1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Styrene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Toluene	20.6		J	1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-39	MW-39-022318	Permanent	Abandoned	2/23/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Acetone	40		J-	25	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Benzene	201		J-	10	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Chlorobenzene	2.8		J-	1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Cumene	0	U		10	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Ethylbenzene	1.3		J-	1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	m & p-Xylenes	28.1		J-	1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	o-Xylene	2.2		J-	1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Styrene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Toluene	5.8		J-	1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-39	MW-39-051118	Permanent	Abandoned	5/11/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Acetone	0	U		25	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Benzene	4.3			1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Chloroethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Cumene	0	U		10	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Methylene Chloride	0	U	U	1.1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Styrene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Toluene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-39	MW-39-080318	Permanent	Abandoned	8/3/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	2-Hexanone	24.5		J	5	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Acetone	55.3		J	25	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Acetone	64.2		J	25	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Benzene	442		J	10	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Benzene	348		J	10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chlorobenzene	5.4			1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chlorobenzene	4.9			1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Cumene	0	U		10	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Ethylbenzene	6.2			1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Ethylbenzene	6.1	J		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	m & p-Xylenes	99.4		J	1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	m & p-Xylenes	101		J	1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	o-Xylene	11			1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	o-Xylene	10.7			1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Styrene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Toluene	22.6		J	1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Toluene	22.5		J	1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-39	MW-39-101818	Permanent	Abandoned	10/18/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	2-Hexanone	23.9			5	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Acetone	68.1			25	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Benzene	207			10	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Cumene	0	U		10	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Ethylbenzene	2.4			1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	m & p-Xylenes	43.2			1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	o-Xylene	4.6			1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Styrene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Toluene	5.5			1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-39	MW-39-042519	Permanent	Abandoned	4/25/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	2-Hexanone	9.9			5	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Acetone	63.6			25	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Benzene	131			1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Chlorobenzene	3.3			1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Cumene	0	U		10	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	m & p-Xylenes	21.5			1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Methyl isobutenyl ketone	174			5	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	o-Xylene	1.9			1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Styrene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Toluene	26.9			1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-39	MW-39-112219	Permanent	Abandoned	11/22/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-4	MW-4_5/20/92_NM	Permanent	Abandoned	5/20/1992	7.1 - 12.1	Benzene	0	U		100	ug/L
MW-4	MW-4_5/20/92_NM	Permanent	Abandoned	5/20/1992	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		100	ug/L
MW-4	MW-4_5/20/92_NM	Permanent	Abandoned	5/20/1992	7.1 - 12.1	Ethylbenzene	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-4	MW-4_5/20/92_NM	Permanent	Abandoned	5/20/1992	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_5/20/92_NM	Permanent	Abandoned	5/20/1992	7.1 - 12.1	Toluene	0	U		100	ug/L
MW-4	MW-4_5/20/92_NM	Permanent	Abandoned	5/20/1992	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		100	ug/L
MW-4	MW-4_5/20/92_NM	Permanent	Abandoned	5/20/1992	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/20/92_NM	Permanent	Abandoned	5/20/1992	7.1 - 12.1	Vinyl chloride	0	U		200	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	2-Hexanone	0	U		100	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Acetone	0	U		250	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Carbon disulfide	0	U		250	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	cis-1,2-Dichloroethylene	49				ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	m & p-Xylenes	0	U		10	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Methyl ethyl ketone	0	U		100	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Methyl isobutenyl ketone	0	U		100	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Toluene	6				ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_2/2/05_NM	Permanent	Abandoned	2/2/2005	7.1 - 12.1	Vinyl chloride	0	U		5	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	2-Hexanone	0	U		7	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Acetone	0	U		10	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Benzene	0	U		3.5	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Carbon disulfide	0	U		4.8	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	cis-1,2-Dichloroethylene	12				ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Ethylbenzene	0	U		4.3	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	m & p-Xylenes	0	U		8.5	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Methyl ethyl ketone	0	U		12	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Methyl isobutenyl ketone	0	U		15	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	o-Xylene	0	U		3.9	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Toluene	0	U		4.3	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		4.7	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_4/20/09_NM	Permanent	Abandoned	4/20/2009	7.1 - 12.1	Vinyl chloride	0	U		4.8	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	2-Hexanone	0	U		0.7	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Acetone	15				ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Benzene	0.39	J			ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Carbon disulfide	0	U		0.48	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	cis-1,2-Dichloroethylene	6.8				ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Ethylbenzene	0	U		0.43	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	m & p-Xylenes	0	U		0.85	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Methyl ethyl ketone	0	U		1.2	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Methyl isobutenyl ketone	0	U		1.5	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	o-Xylene	0	U		0.39	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Toluene	0	U		0.43	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		0.47	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_6/18/10_NM	Permanent	Abandoned	6/18/2010	7.1 - 12.1	Vinyl chloride	0	U		0.48	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	2-Hexanone	80	J			ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Acetone	1200	J			ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Benzene	0	U		2	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Carbon disulfide	0	U		5.4	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	cis-1,2-Dichloroethylene	59				ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	m & p-Xylenes	0	U		4.8	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Methyl ethyl ketone	59	J			ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Methyl isobutenyl ketone	0	U		11	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	o-Xylene	0	U		2.7	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Toluene	0	U		2.7	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/22/10_NM	Permanent	Abandoned	11/22/2010	7.1 - 12.1	Vinyl chloride	0	U		3	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	2-Hexanone	53				ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Acetone	270				ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Benzene	0	U		2.7	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Carbon disulfide	4.4	J			ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	cis-1,2-Dichloroethylene	22				ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Methyl ethyl ketone	0	U		3.8	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	o-Xylene	0	U		2.5	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Toluene	0	U		3	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_3/9/11_NM	Permanent	Abandoned	3/9/2011	7.1 - 12.1	Vinyl chloride	0	U		3.3	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	2-Hexanone	220				ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Acetone	7800				ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Benzene	0	U		2.7	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Carbon disulfide	0	U		2.4	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	cis-1,2-Dichloroethylene	42				ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Methyl ethyl ketone	150				ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	o-Xylene	0	U		2.5	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Toluene	9	J			ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-4	MW-4_5/26/11_NM	Permanent	Abandoned	5/26/2011	7.1 - 12.1	Vinyl chloride	0	U		3.3	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	2-Hexanone	220				ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Acetone	1200				ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Benzene	0	U		5.4	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Carbon disulfide	0	U		4.8	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		4.4	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	m & p-Xylenes	0	U		10	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Methyl ethyl ketone	69	J			ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Methyl isobutenyl ketone	0	U		20	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Toluene	7	J			ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_7/27/11_NM	Permanent	Abandoned	7/27/2011	7.1 - 12.1	Vinyl chloride	0	U		6.6	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	2-Hexanone	29				ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Acetone	76				ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	cis-1,2-Dichloroethylene	16				ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Cumene	7.7				ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Toluene	12				ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/22/11_NM	Permanent	Abandoned	11/22/2011	7.1 - 12.1	Vinyl chloride	3.4				ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	2-Hexanone	0	U		10	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Acetone	0	U		50	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	cis-1,2-Dichloroethylene	6.7				ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Cumene	11				ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Toluene	6.7				ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/30/12_NM	Permanent	Abandoned	5/30/2012	7.1 - 12.1	Vinyl chloride	3.4				ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	2-Hexanone	0	U		10	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Acetone	0	U		50	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Cumene	23	J			ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Toluene	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/20/12_NM	Permanent	Abandoned	11/20/2012	7.1 - 12.1	Vinyl chloride	0	U		2	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	2-Hexanone	26	J			ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Acetone	77	J			ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	cis-1,2-Dichloroethylene	15	J			ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Cumene	8	J			ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Toluene	10	J			ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/22/12_DUP	Permanent	Abandoned	11/22/2012	7.1 - 12.1	Vinyl chloride	3.2	J			ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	2-Hexanone	0	U		10	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Acetone	0	U		50	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Cumene	16				ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Toluene	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/22/13_NM	Permanent	Abandoned	5/22/2013	7.1 - 12.1	Vinyl chloride	0	U		2	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	2-Hexanone	0	U		10	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Acetone	0	U		50	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Cumene	15				ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Toluene	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/18/13_NM	Permanent	Abandoned	11/18/2013	7.1 - 12.1	Vinyl chloride	0	U		2	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	2-Hexanone	0	U		10	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Acetone	0	U		50	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Cumene	18				ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Toluene	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/20/14_NM	Permanent	Abandoned	5/20/2014	7.1 - 12.1	Vinyl chloride	0	U		2	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	2-Hexanone	0	U		10	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Acetone	0	U		50	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Benzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Cumene	20				ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Toluene	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/12/14_NM	Permanent	Abandoned	11/12/2014	7.1 - 12.1	Vinyl chloride	0	U		2	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	2-Hexanone	0	U		10	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Acetone	0	U		50	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Cumene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Toluene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_5/27/15_NM	Permanent	Abandoned	5/27/2015	7.1 - 12.1	Vinyl chloride	0	U		2	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	2-Hexanone	0	U		10	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Acetone	0	U		50	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Benzene	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Carbon disulfide	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Cumene	28				ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Ethylbenzene	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	m & p-Xylenes	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Methyl acetate	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Methyl ethyl ketone	0	U		50	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	o-Xylene	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Tetrachloroethylene	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Toluene	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Trichloroethylene	0	U		5	ug/L
MW-4	MW-4_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.1 - 12.1	Vinyl chloride	0	U		2	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	2-Hexanone	0	U		25	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Acetone	0	U		50	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Benzene	0	U		5	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Carbon disulfide	0	U		5	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Cumene	0	U		5	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Ethylbenzene	0	U		1	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	m & p-Xylenes	0	U		5	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Methyl acetate	0	U		5	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Methyl ethyl ketone	0	U		10	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Methyl isobutenyl ketone	0	U		25	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	o-Xylene	0	U		5	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Tetrachloroethylene	0	U		1	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Toluene	1.5	J			ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Trichloroethylene	0	U		1	ug/L
MW-40	MW-40_7/24/15_NM	Permanent	Abandoned	7/24/2015	3 - 8	Vinyl chloride	0	U		1	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	2-Hexanone	0	U		10	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Acetone	0	U		50	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Benzene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Carbon disulfide	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Cumene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Ethylbenzene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	m & p-Xylenes	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Methyl acetate	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Methyl ethyl ketone	0	U		50	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Methyl isobutenyl ketone	0	U		10	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	o-Xylene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Tetrachloroethylene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Toluene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Trichloroethylene	0	U		5	ug/L
MW-40	MW-40_11/10/15_NM	Permanent	Abandoned	11/10/2015	3 - 8	Vinyl chloride	0	U		2	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,1,1-Trichloroethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,1,2-Trichloroethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,1-Dichloroethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,1-Dichloroethene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,2-Dibromoethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,2-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,2-Dichloroethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,2-Dichloropropane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,3-Dichlorobenzene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	1,4-Dichlorobenzene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	2-Hexanone	0	U		5	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Acetone	0	U		5	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Benzene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Bromoform	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Bromomethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Carbon disulfide	0	U		5	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Carbon tetrachloride	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Chlorobenzene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Chloroethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Chloroform	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Chloromethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Cumene	2.6			1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Cyclohexane	0	U		5	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Dibromochloromethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Dichlorobromomethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Dichlorodifluoromethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Ethylbenzene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	m & p-Xylenes	0	U		2	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Methyl acetate	0	U		5	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Methyl ethyl ketone	0	U		5	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Methyl isobutenyl ketone	0	U		5	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Methylcyclohexane	0	U		5	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Methylene Chloride	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	o-Xylene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Styrene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Tetrachloroethylene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Toluene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Trichloroethylene	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Trichlorofluoromethane	0	U		1	ug/L
MW-40	MW-40-120217	Permanent	Abandoned	12/2/2017	3 - 8	Vinyl chloride	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,1,1-Trichloroethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,1,2-Trichloroethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,1-Dichloroethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,1-Dichloroethene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,2,4-Trichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,2-Dibromoethane	0	U		2	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,2-Dichlorobenzene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,2-Dichloroethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,2-Dichloropropane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,3-Dichlorobenzene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	1,4-Dichlorobenzene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	2-Hexanone	0	U		5	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Acetone	0	U		25	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Benzene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Bromoform	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Bromomethane	0	U		2	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Carbon disulfide	0	U		10	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Carbon tetrachloride	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Chlorobenzene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Chloroethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Chloroform	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Chloromethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Cumene	0	U		10	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Cyclohexane	0	U		10	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Dibromochloromethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Dichlorobromomethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Dichlorodifluoromethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Ethylbenzene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	m & p-Xylenes	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Methyl acetate	0	U		10	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Methyl ethyl ketone	0	U		5	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Methyl isobutenyl ketone	6.8			5	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Methylcyclohexane	0	U		10	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Methylene Chloride	1			1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	o-Xylene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Styrene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Tetrachloroethylene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Toluene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Trichloroethylene	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Trichlorofluoromethane	0	U		1	ug/L
MW-40	MW-40-080318	Permanent	Abandoned	8/3/2018	3 - 8	Vinyl chloride	0	U		1	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	2-Hexanone	0	U		25	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Acetone	0	U		50	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Benzene	0	U		5	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Carbon disulfide	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Ethylbenzene	0	U		1	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	m & p-Xylenes	0	U		5	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Methyl acetate	0	U		5	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Methyl ethyl ketone	0	U		10	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Methyl isobutenyl ketone	0	U		25	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	o-Xylene	0	U		5	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Tetrachloroethylene	0	U		1	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Toluene	0	U		1	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Trichloroethylene	0	U		1	ug/L
MW-41	MW-41_7/25/15_NM	Permanent	Abandoned	7/25/2015	6.4 - 11.4	Vinyl chloride	0	U		1	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	2-Hexanone	0	U		10	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Acetone	0	U		50	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Benzene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Carbon disulfide	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Cumene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Ethylbenzene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	m & p-Xylenes	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Methyl acetate	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Methyl ethyl ketone	0	U		50	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Methyl isobutenyl ketone	0	U		10	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	o-Xylene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Tetrachloroethylene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Toluene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Trichloroethylene	0	U		5	ug/L
MW-41	MW-41_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.4 - 11.4	Vinyl chloride	0	U		2	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	2-Hexanone	0	U		25	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Acetone	0	U		50	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Benzene	0	U		5	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Ethylbenzene	0	U		1	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	m & p-Xylenes	0	U		5	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Methyl ethyl ketone	0	U		10	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Methyl isobutenyl ketone	0	U		25	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	o-Xylene	0	U		5	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Toluene	0	U		1	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Trichloroethylene	0	U		1	ug/L
MW-42	MW-42_7/25/15_NM	Permanent	Abandoned	7/25/2015	7.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	2-Hexanone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Acetone	0	U		50	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Benzene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Cumene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Ethylbenzene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	m & p-Xylenes	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Methyl ethyl ketone	0	U		50	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Methyl isobutenyl ketone	0	U		10	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	o-Xylene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Tetrachloroethylene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Toluene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Trichloroethylene	0	U		5	ug/L
MW-42	MW-42_11/10/15_NM	Permanent	Abandoned	11/10/2015	7.5 - 12.5	Vinyl chloride	0	U		2	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,1,1-Trichloroethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,1,2-Trichloroethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,1-Dichloroethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,1-Dichloroethene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,2-Dibromoethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,2-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,2-Dichloroethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,2-Dichloropropane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,3-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	1,4-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	2-Hexanone	0	U		10	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Acetone	0	U		50	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Benzene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Bromoform	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Bromomethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Carbon disulfide	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Carbon tetrachloride	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Chlorobenzene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Chloroethane	0	U		10	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Chloroform	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Chloromethane	0	U		10	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Cumene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Cyclohexane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Dibromochloromethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Dichlorobromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Dichlorodifluoromethane	0	U		10	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Ethylbenzene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	m & p-Xylenes	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Methyl acetate	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Methyl ethyl ketone	0	U		50	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Methyl isobutenyl ketone	0	U		10	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Methylcyclohexane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Methylene chloride	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	o-Xylene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Styrene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Tetrachloroethylene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Toluene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Trichloroethylene	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Trichlorofluoromethane	0	U		5	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Trichlorotrifluoroethane	0	U		10	ug/L
MW-43	MW-43_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.32 - 15.32	Vinyl chloride	0	U		2	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,1,1-Trichloroethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,1,2-Trichloroethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,1-Dichloroethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,1-Dichloroethene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,2-Dibromoethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,2-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,2-Dichloroethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,2-Dichloropropane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,3-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	1,4-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	2-Hexanone	0	U		10	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Acetone	0	U		50	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Benzene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Bromoform	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Bromomethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Carbon disulfide	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Carbon tetrachloride	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Chlorobenzene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Chloroethane	0	U		10	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Chloroform	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Chloromethane	0	U		10	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Cumene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Cyclohexane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Dibromochloromethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Dichlorobromomethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Dichlorodifluoromethane	0	U		10	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Ethylbenzene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	m & p-Xylenes	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Methyl acetate	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Methyl ethyl ketone	0	U		50	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Methyl isobutenyl ketone	0	U		10	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Methylcyclohexane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Methylene chloride	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	o-Xylene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Styrene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Tetrachloroethylene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Toluene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Trichloroethylene	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Trichlorofluoromethane	0	U		5	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Trichlorotrifluoroethane	0	U		10	ug/L
MW-43	MW-43_12/14/16_NM	Permanent	Abandoned	12/14/2016	5.32 - 15.32	Vinyl chloride	0	U		2	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,1,1-Trichloroethane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,1,2-Trichloroethane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,1-Dichloroethane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,1-Dichloroethene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,2-Dibromoethane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,2-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,2-Dichloroethane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,2-Dichloropropane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,3-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	1,4-Dichlorobenzene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	2-Hexanone	0	U		10	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Acetone	0	U		50	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Benzene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Bromoform	0	U	UJ	5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Bromomethane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Carbon disulfide	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Carbon tetrachloride	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Chlorobenzene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Chloroethane	0	U		10	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Chloroform	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Chloromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Cumene	1.8	J		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Cyclohexane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Dibromochloromethane	0	U	UJ	5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Dichlorodifluoromethane	0	U		10	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Ethylbenzene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	m & p-Xylenes	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Methyl acetate	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Methyl ethyl ketone	0	U		50	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Methyl isobutenyl ketone	0	U		10	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Methylcyclohexane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Methylene chloride	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	o-Xylene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Styrene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Tetrachloroethylene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Toluene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Trichloroethylene	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Trichlorofluoromethane	0	U		5	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Trichlorotrifluoroethane	0	U		10	ug/L
MW-43	MW-43-032417	Permanent	Abandoned	3/24/2017	5.32 - 15.32	Vinyl chloride	0	U		2	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,1,1-Trichloroethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,1,2-Trichloroethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,1-Dichloroethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,1-Dichloroethene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,2-Dibromoethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,2-Dichlorobenzene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,2-Dichloroethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,2-Dichloropropane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,3-Dichlorobenzene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	1,4-Dichlorobenzene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	2-Hexanone	0	U		5	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Acetone	0	U		5	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Benzene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Bromoform	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Bromomethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Carbon disulfide	0	U		5	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Carbon tetrachloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Chlorobenzene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Chloroethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Chloroform	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Chloromethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Cumene	4.8			1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Cyclohexane	0	U		5	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Dibromochloromethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Dichlorobromomethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Dichlorodifluoromethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Ethylbenzene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	m & p-Xylenes	0	U		2	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Methyl acetate	0	U		5	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Methyl ethyl ketone	0	U		5	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Methyl isobutenyl ketone	0	U		5	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Methylcyclohexane	0	U		5	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Methylene Chloride	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	o-Xylene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Styrene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Tetrachloroethylene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Toluene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Trichloroethylene	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Trichlorofluoromethane	0	U		1	ug/L
MW-43	MW-43-092917	Permanent	Abandoned	9/29/2017	5.32 - 15.32	Vinyl chloride	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,1,1-Trichloroethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,1,2-Trichloroethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,1-Dichloroethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,1-Dichloroethene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,2-Dibromoethane	0	U		2	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,2-Dichlorobenzene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,2-Dichloroethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,2-Dichloropropane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,3-Dichlorobenzene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	1,4-Dichlorobenzene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	2-Hexanone	0	U		5	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Acetone	0	U		25	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Benzene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Bromoform	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Bromomethane	0	U		2	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Carbon disulfide	0	U		10	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Carbon tetrachloride	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Chlorobenzene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Chloroethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Chloroform	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Chloromethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Cumene	0	U		10	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Cyclohexane	0	U		10	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Dibromochloromethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Dichlorobromomethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Dichlorodifluoromethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Ethylbenzene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	m & p-Xylenes	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Methyl acetate	0	U		10	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Methyl ethyl ketone	0	U		5	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Methyl isobutenyl ketone	0	U		5	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Methylcyclohexane	0	U		10	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Methylene Chloride	0	U	U	2.9	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	o-Xylene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Styrene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Tetrachloroethylene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Toluene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Trichloroethylene	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Trichlorofluoromethane	0	U		1	ug/L
MW-43	MW-43-080218	Permanent	Abandoned	8/2/2018	5.32 - 15.32	Vinyl chloride	0	U		1	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Acetone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Benzene	81				ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	m & p-Xylenes	57				ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	o-Xylene	6.6				ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Toluene	120				ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-44	MW-44_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Benzene	130				ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	m & p-Xylenes	67				ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	o-Xylene	8.3				ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Toluene	180				ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-44	MW-44_7/27/16_NM	Permanent	Active	7/27/2016	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Benzene	180				ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	m & p-Xylenes	74				ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	o-Xylene	8.8				ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Toluene	160				ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-44	MW-44_8/22/16_NM	Permanent	Active	8/22/2016	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Benzene	180			5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Ethylbenzene	2.2	J		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	m & p-Xylenes	48			5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	o-Xylene	5.2			5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Toluene	30			5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-44	MW-44_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U	UJ	5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Benzene	280		J	250	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Bromoform	0	U	UJ	5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Cumene	1.6	J		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Dibromochloromethane	0	U	UJ	5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Ethylbenzene	4	J		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	m & p-Xylenes	93			5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	o-Xylene	9.8			5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Toluene	66			5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-44	MW-44-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	2-Hexanone	0	U	UJ	10	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Acetone	10	J		50	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Benzene	80			5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Bromoform	0	U	UJ	5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Bromomethane	0	U	UJ	5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Cumene	0.77	J		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Dibromochloromethane	0	U	UJ	5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Ethylbenzene	1.9	J		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	m & p-Xylenes	36			5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	o-Xylene	3.9	J		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Styrene	0	U	UJ	5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Toluene	14			5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-44	MW-44-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Acetone	5			5	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Benzene	108			1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Bromomethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Cumene	1.3			1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Ethylbenzene	3			1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	m & p-Xylenes	27.4			2	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	o-Xylene	6.5			1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Toluene	29.8			1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-44	MW-44-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Acetone	0	U		5	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Benzene	17.4			1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Bromomethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Cumene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	m & p-Xylenes	2.9			2	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	o-Xylene	1.4			1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Toluene	2.2			1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-44	MW-44-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dibromoethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Acetone	0	U		25	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Benzene	14.6			1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Bromodichloromethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Bromomethane	0	U		2	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Carbon disulfide	0	U		10	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Cumene	0	U		10	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Cyclohexane	0	U		10	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Ethylbenzene	1.5			1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	m & p-Xylenes	8.5			1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methyl acetate	0	U		10	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methylcyclohexane	0	U		10	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	o-Xylene	3			1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Toluene	9.1			1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-44	MW-44-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dibromoethane	0	U		2	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Acetone	0	U		25	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Benzene	2.9		J	1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Bromomethane	0	U		2	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Carbon disulfide	0	U		10	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Cumene	0	U		10	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Cyclohexane	0	U		10	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Ethylbenzene	1.4			1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	m & p-Xylenes	5.7			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methyl acetate	0	U		10	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methylcyclohexane	0	U		10	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	o-Xylene	2.9			1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Toluene	2.4			1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-44	MW-44-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Benzene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	m & p-Xylenes	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	o-Xylene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Toluene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-45	MW-45_7/29/15_NM	Permanent	Active	7/29/2015	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Acetone	9.4	J		50	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Benzene	20			5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Cyclohexane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	m & p-Xylenes	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	o-Xylene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Toluene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-45	MW-45_12/15/16_NM	Permanent	Active	12/15/2016	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Benzene	71			5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Bromoform	0	U	UJ	5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Dibromochloromethane	0	U	UJ	5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	m & p-Xylenes	3.4	J		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	o-Xylene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Toluene	2.2	J		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-45	MW-45-032417	Permanent	Active	3/24/2017	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	2-Hexanone	0	U	UJ	10	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Acetone	82		J	50	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Benzene	120			5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Bromoform	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Bromomethane	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Chloroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Dibromochloromethane	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Ethylbenzene	0.5	J		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	m & p-Xylenes	11			5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methyl acetate	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methyl isobutenyl ketone	2.6	J		10	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	o-Xylene	1.4	J		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Styrene	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Toluene	1.7	J		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-45	MW-45-061317	Permanent	Active	6/13/2017	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Acetone	98.3			5	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Benzene	160			1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Bromomethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Cumene	1			1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	m & p-Xylenes	18.4			2	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	o-Xylene	2.1			1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Toluene	3.7			1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-45	MW-45-092817	Permanent	Active	9/28/2017	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dibromoethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Acetone	9.7			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Benzene	61.9			1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Bromomethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Cumene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	m & p-Xylenes	4.6			2	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	o-Xylene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Toluene	1.3			1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-45	MW-45-113017	Permanent	Active	11/30/2017	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dibromoethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Acetone	0	U		25	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Benzene	24.5			1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Bromodichloromethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Bromomethane	0	U		2	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Carbon disulfide	0	U		10	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Chlorobenzene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Cumene	0	U		10	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Cyclohexane	0	U		10	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	m & p-Xylenes	1.6			1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methyl acetate	0	U		10	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methylcyclohexane	0	U		10	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	o-Xylene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Toluene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-45	MW-45-022218	Permanent	Active	2/22/2018	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1,1-Trichloroethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1,2-Trichloroethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1-Dichloroethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,1-Dichloroethene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dibromoethane	0	U		2	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dichloroethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,2-Dichloropropane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,3-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	1,4-Dichlorobenzene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	2-Hexanone	0	U		5	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Acetone	0	U		25	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Benzene	54.5		J	1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Bromoform	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Bromomethane	0	U		2	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Carbon disulfide	0	U		10	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Carbon tetrachloride	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Chlorobenzene	1.1			1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Chloroethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Chloroform	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Chloromethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Cumene	0	U		10	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Cyclohexane	0	U		10	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Dibromochloromethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Dichlorobromomethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Dichlorodifluoromethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Ethylbenzene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	m & p-Xylenes	2.6			1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methyl acetate	0	U		10	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methyl ethyl ketone	0	U		5	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methyl isobutenyl ketone	0	U		5	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methylcyclohexane	0	U		10	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Methylene Chloride	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	o-Xylene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Styrene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Tetrachloroethylene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Toluene	1.1			1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Trichloroethylene	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Trichlorofluoromethane	0	U		1	ug/L
MW-45	MW-45-051018	Permanent	Active	5/10/2018	5.2 - 15.2	Vinyl chloride	0	U		1	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,1,1-Trichloroethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,1,2-Trichloroethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,1-Dichloroethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,1-Dichloroethene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,2-Dibromoethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,2-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,2-Dichloroethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,2-Dichloropropane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,3-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	1,4-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	2-Hexanone	0	U		10	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Acetone	0	U		50	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Benzene	19				ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Bromoform	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Bromomethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Carbon disulfide	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Carbon tetrachloride	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Chlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Chloroethane	0	U		10	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Chloroform	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Chloromethane	0	U		10	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Cumene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Cyclohexane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Dibromochloromethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Dichlorobromomethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Dichlorodifluoromethane	0	U		10	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Ethylbenzene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	m & p-Xylenes	6.8				ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Methyl acetate	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Methyl ethyl ketone	0	U		50	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Methyl isobutenyl ketone	0	U		10	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Methylcyclohexane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Methylene chloride	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	o-Xylene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Styrene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Tetrachloroethylene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Toluene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Trichloroethylene	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Trichlorofluoromethane	0	U		5	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Trichlorotrifluoroethane	0	U		10	ug/L
MW-46	MW-46_7/29/15_NM	Permanent	Abandoned	7/29/2015	5.26 - 15.26	Vinyl chloride	0	U		2	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,1,1-Trichloroethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,1,2-Trichloroethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,1-Dichloroethane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,1-Dichloroethene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,2-Dibromoethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,2-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,2-Dichloroethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,2-Dichloropropane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,3-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	1,4-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	2-Hexanone	0	U		10	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Acetone	0	U		50	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Benzene	43				ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Bromoform	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Bromomethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Carbon disulfide	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Carbon tetrachloride	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Chlorobenzene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Chloroethane	0	U		10	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Chloroform	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Chloromethane	0	U		10	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Cumene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Cyclohexane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Dibromochloromethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Dichlorobromomethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Dichlorodifluoromethane	0	U		10	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Ethylbenzene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	m & p-Xylenes	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Methyl acetate	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Methyl ethyl ketone	0	U		50	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Methyl isobutenyl ketone	0	U		10	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Methylcyclohexane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Methylene chloride	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	o-Xylene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Styrene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Tetrachloroethylene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Toluene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Trichloroethylene	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Trichlorofluoromethane	0	U		5	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Trichlorotrifluoroethane	0	U		10	ug/L
MW-46	MW-46_7/27/16_NM	Permanent	Abandoned	7/27/2016	5.26 - 15.26	Vinyl chloride	0	U		2	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,1,1-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,1,2-Trichloroethane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,1-Dichloroethane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,1-Dichloroethene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,2-Dibromoethane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,2-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,2-Dichloroethane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,2-Dichloropropane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,3-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	1,4-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	2-Hexanone	0	U		10	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Acetone	0	U		50	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Benzene	93				ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Bromoform	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Bromomethane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Carbon disulfide	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Carbon tetrachloride	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Chlorobenzene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Chloroethane	0	U		10	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Chloroform	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Chloromethane	0	U		10	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Cumene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Cyclohexane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Dibromochloromethane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Dichlorobromomethane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Dichlorodifluoromethane	0	U		10	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Ethylbenzene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	m & p-Xylenes	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Methyl acetate	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Methyl ethyl ketone	0	U		50	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Methyl isobutenyl ketone	0	U		10	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Methylcyclohexane	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Methylene chloride	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	o-Xylene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Styrene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Tetrachloroethylene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Toluene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Trichloroethylene	0	U		5	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Trichlorofluoromethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Trichlorotrifluoroethane	0	U		10	ug/L
MW-46	MW-46_8/23/16_NM	Permanent	Abandoned	8/23/2016	5.26 - 15.26	Vinyl chloride	0	U		2	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,1,1-Trichloroethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,1,2-Trichloroethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,1-Dichloroethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,1-Dichloroethene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,2-Dibromoethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,2-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,2-Dichloroethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,2-Dichloropropane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,3-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	1,4-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	2-Hexanone	0	U		10	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Acetone	7.7	J		50	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Benzene	56			5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Bromoform	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Bromomethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Carbon disulfide	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Carbon tetrachloride	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Chlorobenzene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Chloroethane	0	U		10	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Chloroform	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Chloromethane	0	U		10	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Cumene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Cyclohexane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Dibromochloromethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Dichlorobromomethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Dichlorodifluoromethane	0	U		10	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Ethylbenzene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	m & p-Xylenes	3.8	J		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Methyl acetate	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Methyl ethyl ketone	0	U		50	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Methyl isobutenyl ketone	4.5	J		10	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Methylcyclohexane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Methylene chloride	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	o-Xylene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Styrene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Tetrachloroethylene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Toluene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Trichloroethylene	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Trichlorofluoromethane	0	U		5	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Trichlorotrifluoroethane	0	U		10	ug/L
MW-46	MW-46_12/13/16_NM	Permanent	Abandoned	12/13/2016	5.26 - 15.26	Vinyl chloride	0	U		2	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,1,1-Trichloroethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,1,2-Trichloroethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,1-Dichloroethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,1-Dichloroethene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,2-Dibromoethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,2-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,2-Dichloroethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,2-Dichloropropane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,3-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	1,4-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	2-Hexanone	0	U		10	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Acetone	28	J		50	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Benzene	180			5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Bromoform	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Bromomethane	0	U	UJ	5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Carbon disulfide	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Carbon tetrachloride	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Chlorobenzene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Chloroethane	0	U		10	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Chloroform	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Chloromethane	0	U		10	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Cumene	0.84	J		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Cyclohexane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Dibromochloromethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Dichlorobromomethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Dichlorodifluoromethane	0	U		10	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Ethylbenzene	0.58	J		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	m & p-Xylenes	12			5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Methyl acetate	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Methyl ethyl ketone	0	U		50	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Methyl isobutenyl ketone	4.3	J		10	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Methylcyclohexane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Methylene chloride	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	o-Xylene	1.4	J		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Styrene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Tetrachloroethylene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Toluene	4	J		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Trichloroethylene	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Trichlorofluoromethane	0	U		5	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Trichlorotrifluoroethane	0	U	UJ	10	ug/L
MW-46	MW-46-032417	Permanent	Abandoned	3/24/2017	5.26 - 15.26	Vinyl chloride	0	U		2	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,1,1-Trichloroethane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,1,2-Trichloroethane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,1-Dichloroethane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,1-Dichloroethene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,2-Dibromoethane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,2-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,2-Dichloroethane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,2-Dichloropropane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,3-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	1,4-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	2-Hexanone	0	U	UJ	10	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Acetone	29	J	J	50	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Benzene	240			50	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Bromoform	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Bromomethane	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Carbon disulfide	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Chlorobenzene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Chloroethane	0	U		10	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Chloroform	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Chloromethane	0	U		10	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Cumene	2.6	J		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Cyclohexane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Dibromochloromethane	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Dichlorobromomethane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Dichlorodifluoromethane	0	U		10	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Ethylbenzene	1.8	J		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	m & p-Xylenes	40			5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Methyl acetate	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Methyl ethyl ketone	0	U		50	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Methyl isobutenyl ketone	7.6	J		10	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Methylcyclohexane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Methylene chloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	o-Xylene	3.3	J		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Styrene	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Tetrachloroethylene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Toluene	4.2	J		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Trichloroethylene	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Trichlorofluoromethane	0	U		5	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Trichlorotrifluoroethane	0	U		10	ug/L
MW-46	MW-46-061317	Permanent	Abandoned	6/13/2017	5.26 - 15.26	Vinyl chloride	0	U		2	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,1,1-Trichloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,1,2-Trichloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,1-Dichloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,1-Dichloroethene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,2-Dibromoethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,2-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,2-Dichloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,2-Dichloropropane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,3-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	1,4-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	2-Hexanone	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Acetone	195		J	25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Acetone	154	J		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Benzene	737			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Benzene	716			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Bromoform	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Bromomethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Carbon disulfide	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Carbon tetrachloride	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Chlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Chloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Chloroform	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Chloromethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Cumene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Cyclohexane	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Dibromochloromethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Dichlorobromomethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Dichlorodifluoromethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Ethylbenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	m & p-Xylenes	59.1			10	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	m & p-Xylenes	57.3			10	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Methyl acetate	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Methyl ethyl ketone	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Methyl isobutenyl ketone	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Methylcyclohexane	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Methylene Chloride	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	o-Xylene	7.1			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	o-Xylene	6.6			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Styrene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Tetrachloroethylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Toluene	9.7			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Toluene	9.5			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Trichloroethylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Trichlorofluoromethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/28/2017	5.26 - 15.26	Vinyl chloride	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,1,1-Trichloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,1,2-Trichloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,1-Dichloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,1-Dichloroethene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,2-Dibromoethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,2-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,2-Dichloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,2-Dichloropropane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,3-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	1,4-Dichlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	2-Hexanone	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Acetone	154	J		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Acetone	195		J	25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Benzene	716			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Benzene	737			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Bromoform	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Bromomethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Carbon disulfide	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Carbon tetrachloride	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Chlorobenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Chloroethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Chloroform	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Chloromethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Cumene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Cyclohexane	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Dibromochloromethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Dichlorobromomethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Dichlorodifluoromethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Ethylbenzene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	m & p-Xylenes	57.3			10	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	m & p-Xylenes	59.1			10	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Methyl acetate	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Methyl ethyl ketone	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Methyl isobutenyl ketone	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Methylcyclohexane	0	U		25	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Methylene Chloride	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	o-Xylene	7.1			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	o-Xylene	6.6			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Styrene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Tetrachloroethylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Toluene	9.5			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Toluene	9.7			5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Trichloroethylene	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Trichlorofluoromethane	0	U		5	ug/L
MW-46	MW-46-092817	Permanent	Abandoned	9/29/2017	5.26 - 15.26	Vinyl chloride	0	U		5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,1,1-Trichloroethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,1,2-Trichloroethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,1-Dichloroethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,1-Dichloroethene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,2-Dibromoethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,2-Dichlorobenzene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,2-Dichloroethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,2-Dichloropropane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,3-Dichlorobenzene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	1,4-Dichlorobenzene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	2-Hexanone	0	U		5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Acetone	18.2			5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Benzene	140			1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Bromoform	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Bromomethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Carbon disulfide	0	U		5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Carbon tetrachloride	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Chlorobenzene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Chloroethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Chloroform	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Chloromethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Cumene	1.4			1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Cyclohexane	0	U		5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Dibromochloromethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Dichlorobromomethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Dichlorodifluoromethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Ethylbenzene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	m & p-Xylenes	9.2			2	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Methyl acetate	0	U		5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Methyl ethyl ketone	0	U		5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Methyl isobutenyl ketone	0	U		5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Methylcyclohexane	0	U		5	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Methylene Chloride	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	o-Xylene	1.4			1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Styrene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Tetrachloroethylene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Toluene	2.2			1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Trichloroethylene	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Trichlorofluoromethane	0	U		1	ug/L
MW-46	MW-46-113017	Permanent	Abandoned	11/30/2017	5.26 - 15.26	Vinyl chloride	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,1,1-Trichloroethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,1,2-Trichloroethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,1-Dichloroethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,1-Dichloroethene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,2-Dibromoethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,2-Dichlorobenzene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,2-Dichloroethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,2-Dichloropropane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,3-Dichlorobenzene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	1,4-Dichlorobenzene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	2-Hexanone	0	U		5	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Acetone	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Benzene	64.4			1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Bromodichloromethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Bromoform	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Bromomethane	0	U		2	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Carbon disulfide	0	U		10	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Carbon tetrachloride	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Chlorobenzene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Chloroethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Chloroform	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Chloromethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Cumene	0	U		10	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Cyclohexane	0	U		10	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Dibromochloromethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Dichlorodifluoromethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Ethylbenzene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	m & p-Xylenes	6.5			1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Methyl acetate	0	U		10	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Methyl ethyl ketone	0	U		5	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Methyl isobutenyl ketone	0	U		5	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Methylcyclohexane	0	U		10	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Methylene Chloride	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	o-Xylene	1.2			1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Styrene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Tetrachloroethylene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Toluene	1.3			1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Trichloroethylene	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Trichlorofluoromethane	0	U		1	ug/L
MW-46	MW-46-022218	Permanent	Abandoned	2/22/2018	5.26 - 15.26	Vinyl chloride	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,1,1-Trichloroethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,1,2-Trichloroethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,1-Dichloroethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,1-Dichloroethene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,2-Dibromoethane	0	U		2	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,2-Dichlorobenzene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,2-Dichloroethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,2-Dichloropropane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,3-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	1,4-Dichlorobenzene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	2-Hexanone	0	U		5	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Acetone	0	U		25	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Benzene	84.4		J	1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Bromoform	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Bromomethane	0	U		2	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Carbon disulfide	0	U		10	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Carbon tetrachloride	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Chlorobenzene	1.6			1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Chloroethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Chloroform	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Chloromethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Cumene	0	U		10	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Cyclohexane	0	U		10	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Dibromochloromethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Dichlorobromomethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Dichlorodifluoromethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Ethylbenzene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	m & p-Xylenes	4.8		J	1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Methyl acetate	0	U		10	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Methyl ethyl ketone	0	U		5	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Methyl isobutenyl ketone	0	U		5	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Methylcyclohexane	0	U		10	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Methylene Chloride	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	o-Xylene	1.3		J	1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Styrene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Tetrachloroethylene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Toluene	1.6			1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Trichloroethylene	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Trichlorofluoromethane	0	U		1	ug/L
MW-46	MW-46-051018	Permanent	Abandoned	5/10/2018	5.26 - 15.26	Vinyl chloride	0	U		1	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Acetone	62				ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Benzene	1100				ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Cumene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Ethylbenzene	10				ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	m & p-Xylenes	170				ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methyl isobutenyl ketone	12				ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	o-Xylene	15				ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Styrene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Toluene	88				ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47	MW-47_7/29/15_NM	Permanent	Active	7/29/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,1-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,1-Dichloroethene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,2-Dibromoethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,2-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,2-Dichloropropane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	2-Hexanone	0	U		10	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Acetone	0	U		50	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Benzene	1200				ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Bromoform	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Bromomethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Carbon disulfide	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Carbon tetrachloride	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Chlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Chloroethane	0	U		10	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Chloroform	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Chloromethane	0	U		10	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Cumene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Cyclohexane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Dibromochloromethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Dichlorobromomethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Dichlorodifluoromethane	0	U		10	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Ethylbenzene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	m & p-Xylenes	260				ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Methyl acetate	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Methyl ethyl ketone	0	U		50	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Methyl isobutenyl ketone	160				ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Methylcyclohexane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Methylene chloride	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	o-Xylene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Styrene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Tetrachloroethylene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Toluene	100				ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Trichloroethylene	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Trichlorofluoromethane	0	U		5	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A_7/25/16_NM	Permanent	Active	7/25/2016	5.21 - 15.21	Vinyl chloride	0	U		2	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,1-Dichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,1-Dichloroethene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,2-Dibromoethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,2-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,2-Dichloropropane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	2-Hexanone	0	U		10	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Acetone	33	J		50	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Benzene	1000			500	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Bromoform	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Bromomethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Carbon disulfide	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Carbon tetrachloride	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Chlorobenzene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Chloroethane	0	U		10	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Chloroform	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Chloromethane	0	U		10	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Cumene	4.3	J		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Cyclohexane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Dibromochloromethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Dichlorobromomethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Dichlorodifluoromethane	0	U		10	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Ethylbenzene	9.8			5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	m & p-Xylenes	160			5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Methyl acetate	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Methyl ethyl ketone	0	U		50	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Methyl isobutenyl ketone	14			10	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Methylcyclohexane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Methylene chloride	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	o-Xylene	16			5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Styrene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Tetrachloroethylene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Toluene	76			5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Trichloroethylene	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Trichlorofluoromethane	0	U		5	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A_12/12/16_NM	Permanent	Active	12/12/2016	5.21 - 15.21	Vinyl chloride	0	U		2	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1,1-Trichloroethane	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1,2-Trichloroethane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1-Dichloroethane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1-Dichloroethene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,1-Dichloroethene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U	UJ	100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dibromoethane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dibromoethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dichlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dichloroethane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dichloropropane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,2-Dichloropropane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,3-Dichlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,4-Dichlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	2-Hexanone	0	U	UJ	200	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	2-Hexanone	0	U	UJ	10	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Acetone	0	U		1000	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Acetone	0	U		50	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Benzene	920			100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Benzene	1100		J	250	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Bromoform	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Bromoform	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Bromomethane	0	U	UJ	100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Bromomethane	0	U	UJ	5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Carbon disulfide	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Carbon disulfide	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Carbon tetrachloride	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Carbon tetrachloride	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Chlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Chlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Chloroethane	0	U		200	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Chloroethane	0	U		10	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Chloroform	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Chloroform	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Chloromethane	0	U		200	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Chloromethane	0	U		10	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U	UJ	100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Cumene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Cumene	4.6	J		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Cyclohexane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Cyclohexane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Dibromochloromethane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Dibromochloromethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Dichlorobromomethane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Dichlorobromomethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Dichlorodifluoromethane	0	U		200	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Dichlorodifluoromethane	0	U		10	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Ethylbenzene	0	U	UJ	100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Ethylbenzene	13		J	5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	m & p-Xylenes	0	U	UJ	100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	m & p-Xylenes	220		J	5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methyl acetate	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methyl acetate	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methyl ethyl ketone	0	U	UJ	1000	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methyl ethyl ketone	0	U	UJ	50	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methyl isobutenyl ketone	0	U		200	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methylcyclohexane	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methylcyclohexane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methylene chloride	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Methylene chloride	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	o-Xylene	44	J	J	100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	o-Xylene	22		J	5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Styrene	0	U	UJ	100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Styrene	0	U	UJ	5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Tetrachloroethylene	0	U	UJ	100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Tetrachloroethylene	0	U	UJ	5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Toluene	60	J		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Toluene	69			5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Trichloroethylene	0	U		100	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Trichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Trichlorofluoromethane	0	U		100	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Trichlorofluoromethane	0	U		5	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Trichlorotrifluoroethane	0	U		200	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Vinyl chloride	0	U		2	ug/L
MW-47A	MW-47A-032617	Permanent	Active	3/26/2017	5.21 - 15.21	Vinyl chloride	0	U		40	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,1-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,1-Dichloroethene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,2-Dibromoethane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,2-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,2-Dichloropropane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	2-Hexanone	0	U	UJ	10	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Acetone	49	J		50	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Benzene	990			50	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Bromoform	0	U	UJ	5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Bromomethane	0	U	UJ	5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Carbon disulfide	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Carbon tetrachloride	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Chlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Chloroethane	0	U		10	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Chloroform	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Chloromethane	0	U		10	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Cumene	5			5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Cyclohexane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Dibromochloromethane	0	U	UJ	5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Dichlorobromomethane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Dichlorodifluoromethane	0	U		10	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Ethylbenzene	12			5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	m & p-Xylenes	240			5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Methyl acetate	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Methyl ethyl ketone	0	U		50	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Methyl isobutenyl ketone	7.1	J		10	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Methylcyclohexane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Methylene chloride	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	o-Xylene	19			5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Styrene	0	U	UJ	5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Tetrachloroethylene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Toluene	60			5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Trichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Trichlorofluoromethane	0	U		5	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-061417	Permanent	Active	6/14/2017	5.21 - 15.21	Vinyl chloride	0	U		2	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,1,1-Trichloroethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,1,2-Trichloroethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,1-Dichloroethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,1-Dichloroethene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,2-Dibromoethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,2-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,2-Dichloroethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,2-Dichloropropane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,3-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	1,4-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	2-Hexanone	0	U		50	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Acetone	117			50	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Benzene	755			10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Bromoform	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Bromomethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Carbon disulfide	0	U		50	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Carbon tetrachloride	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Chlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Chloroethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Chloroform	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Chloromethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Cyclohexane	0	U		50	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Dibromochloromethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Dichlorobromomethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Dichlorodifluoromethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Ethylbenzene	11.1			10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	m & p-Xylenes	193			20	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Methyl acetate	0	U		50	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Methyl ethyl ketone	0	U		50	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Methyl isobutenyl ketone	0	U		50	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Methylcyclohexane	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Methylene Chloride	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	o-Xylene	19.3			10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Styrene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Tetrachloroethylene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Toluene	50.6			10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Trichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Trichlorofluoromethane	0	U		10	ug/L
MW-47A	MW-47A-092917	Permanent	Active	9/29/2017	5.21 - 15.21	Vinyl chloride	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,1,1-Trichloroethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,1,2-Trichloroethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,1-Dichloroethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,1-Dichloroethene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,2-Dibromoethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,2-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,2-Dichloroethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,2-Dichloropropane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,3-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	1,4-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	2-Hexanone	0	U		50	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Acetone	80.6			50	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Benzene	468			10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Bromoform	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Bromomethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Carbon disulfide	0	U		50	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Carbon tetrachloride	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Chlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Chloroethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Chloroform	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Chloromethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Cyclohexane	0	U		50	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Dibromochloromethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Dichlorobromomethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Dichlorodifluoromethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Ethylbenzene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	m & p-Xylenes	67.7			20	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Methyl acetate	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Methyl ethyl ketone	0	U		50	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Methyl isobutenyl ketone	0	U		50	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Methylcyclohexane	0	U		50	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Methylene Chloride	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	o-Xylene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Styrene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Tetrachloroethylene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Toluene	28.9			10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Trichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Trichlorofluoromethane	0	U		10	ug/L
MW-47A	MW-47A-120217	Permanent	Active	12/2/2017	5.21 - 15.21	Vinyl chloride	0	U		10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,1-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,1-Dichloroethene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,2-Dibromoethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,2-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,2-Dichloropropane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	2-Hexanone	0	U		5	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Acetone	0	U		25	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Benzene	177			10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Bromodichloromethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Bromoform	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Bromomethane	0	U		2	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Carbon disulfide	0	U		10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Carbon tetrachloride	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Chlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Chloroethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Chloroform	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Chloromethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Cyclohexane	0	U		10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Dibromochloromethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Dichlorodifluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Ethylbenzene	3.7			1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	m & p-Xylenes	46			1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Methyl acetate	0	U		10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Methyl ethyl ketone	0	U		5	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Methylcyclohexane	0	U		10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Methylene Chloride	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	o-Xylene	7.4			1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Styrene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Tetrachloroethylene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Toluene	11			1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Trichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Trichlorofluoromethane	0	U		1	ug/L
MW-47A	MW-47A-022318	Permanent	Active	2/23/2018	5.21 - 15.21	Vinyl chloride	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,1-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,1-Dichloroethene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,2-Dibromoethane	0	U		2	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,2-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,2-Dichloropropane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	2-Hexanone	0	U		5	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Acetone	30.1		J	25	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Benzene	178		J	10	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Bromoform	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Bromomethane	0	U		2	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Carbon disulfide	0	U		10	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Carbon tetrachloride	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Chlorobenzene	1.1		J	1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Chloroethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Chloroform	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Chloromethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Cyclohexane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Dibromochloromethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Dichlorobromomethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Dichlorodifluoromethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Ethylbenzene	2.2		J	1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	m & p-Xylenes	27.9		J	1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Methyl acetate	0	U		10	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Methyl ethyl ketone	0	U		5	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Methylcyclohexane	0	U		10	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Methylene Chloride	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Oil and Grease	0	U		5	mg/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	o-Xylene	3.9		J	1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Styrene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Tetrachloroethylene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Toluene	7.8		J	1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Trichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Trichlorofluoromethane	0	U		1	ug/L
MW-47A	MW-47A-051118	Permanent	Active	5/11/2018	5.21 - 15.21	Vinyl chloride	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,1-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,1-Dichloroethene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,2-Dibromoethane	0	U		2	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,2-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,2-Dichloropropane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	2-Hexanone	17.6	J		5	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Acetone	48.1			25	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Benzene	192		J	10	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Bromoform	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Bromomethane	0	U		2	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Carbon disulfide	0	U		10	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Carbon tetrachloride	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Chlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Chloroethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Chloroform	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Chloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Cyclohexane	0	U		10	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Dibromochloromethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Dichlorobromomethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Dichlorodifluoromethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Ethylbenzene	3.2			1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	m & p-Xylenes	31.4			1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Methyl acetate	0	U		10	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Methyl ethyl ketone	0	U		5	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Methylcyclohexane	0	U		10	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Methylene Chloride	0	U	U	1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	o-Xylene	5.8			1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Styrene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Tetrachloroethylene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Toluene	7.6		J	1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Trichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Trichlorofluoromethane	0	U		1	ug/L
MW-47A	MW-47A-080318	Permanent	Active	8/3/2018	5.21 - 15.21	Vinyl chloride	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,1-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,1-Dichloroethene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U	UJ	2	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,2-Dibromoethane	0	U		2	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,2-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,2-Dichloropropane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	2-Hexanone	21.8			5	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Acetone	49.8		J	25	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Benzene	345		J	10	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Bromoform	0	U	UJ	1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Bromomethane	0	U	UJ	2	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Carbon disulfide	0	U		10	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Carbon tetrachloride	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Chlorobenzene	3.3			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Chloroethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Chloroform	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Chloromethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Cyclohexane	0	U		10	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Dibromochloromethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Dichlorobromomethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Dichlorodifluoromethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Ethylbenzene	6.3			1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	m & p-Xylenes	96.1		J	1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Methyl acetate	0	U		10	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Methyl ethyl ketone	0	U		5	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Methylcyclohexane	0	U		10	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Methylene Chloride	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	o-Xylene	11.3			1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Styrene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Tetrachloroethylene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Toluene	21.9		J	1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U	UJ	1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Trichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Trichlorofluoromethane	0	U		1	ug/L
MW-47A	MW-47A-101818	Permanent	Active	10/18/2018	5.21 - 15.21	Vinyl chloride	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,1-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,1-Dichloroethene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,2-Dibromoethane	0	U		2	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,2-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,2-Dichloropropane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	2-Hexanone	25.7		J+	5	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Acetone	118		J+	25	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Benzene	324		J+	10	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Bromoform	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Bromomethane	0	U		2	ug/L



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Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Carbon disulfide	0	U		10	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Carbon tetrachloride	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Chlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Chloroethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Chloroform	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Chloromethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Cyclohexane	0	U		10	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Dibromochloromethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Dichlorobromomethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Dichlorodifluoromethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Ethylbenzene	4.4		J+	1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	m & p-Xylenes	80.9		J+	1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Methyl acetate	0	U		10	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Methyl ethyl ketone	0	U		5	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Methylcyclohexane	0	U		10	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Methylene Chloride	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	o-Xylene	8.5		J+	1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Styrene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Tetrachloroethylene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Toluene	9.9		J+	1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Trichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Trichlorofluoromethane	0	U		1	ug/L
MW-47A	MW-47A-042519	Permanent	Active	4/25/2019	5.21 - 15.21	Vinyl chloride	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,1-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,1-Dichloroethene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,2-Dibromoethane	0	U		2	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,2-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,2-Dichloropropane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	2-Hexanone	32.8			5	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Acetone	86.2			25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Benzene	256			10	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Bromoform	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Bromomethane	0	U		2	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Carbon disulfide	0	U		10	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Carbon tetrachloride	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Chlorobenzene	3.3			1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Chloroethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Chloroform	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Chloromethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Cyclohexane	0	U		10	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Dibromochloromethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Dichlorobromomethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Dichlorodifluoromethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Ethylbenzene	2.7			1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	m & p-Xylenes	51.7			1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Methyl acetate	0	U		10	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Methyl ethyl ketone	0	U		5	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Methylcyclohexane	0	U		10	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Methylene Chloride	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	o-Xylene	5			1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Styrene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Tetrachloroethylene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Toluene	9.6			1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Trichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Trichlorofluoromethane	0	U		1	ug/L
MW-47A	MW-47A-112219	Permanent	Active	11/22/2019	5.21 - 15.21	Vinyl chloride	0	U		1	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,1,1-Trichloroethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,1,2-Trichloroethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,1-Dichloroethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,1-Dichloroethene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		50	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,2-Dibromoethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,2-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,2-Dichloroethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,2-Dichloropropane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,3-Dichlorobenzene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	1,4-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	2-Hexanone	0	U		50	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Acetone	0	U		250	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Benzene	52.7			10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Bromoform	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Bromomethane	0	U		20	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Carbon disulfide	0	U		20	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Carbon tetrachloride	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Chlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Chloroethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Chloroform	0	U		50	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Chloromethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Cyclohexane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Dibromochloromethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Dichlorobromomethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Dichlorodifluoromethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Ethylbenzene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	m & p-Xylenes	0	U		20	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Methyl acetate	0	U		100	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Methyl ethyl ketone	0	U		50	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Methyl isobutenyl ketone	0	U		50	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Methylcyclohexane	0	U		100	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Methylene Chloride	0	U		50	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	o-Xylene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Styrene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Tetrachloroethylene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Toluene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Trichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Trichlorofluoromethane	0	U		10	ug/L
MW-47A	MW-47A-042920	Permanent	Active	4/29/2020	5.21 - 15.21	Vinyl chloride	0	U		10	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,1,1,2-Tetrachloroethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,1,1-Trichloroethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,1,2-Trichloroethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,1-Dichloroethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,1-Dichloroethene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2,3-Trichlorobenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2,3-Trichloropropane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2,4,5-Tetrachlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2-Dibromoethane	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2-Dichlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2-Dichlorobenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2-Dichloroethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2-Dichloropropane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,2-Diphenylhydrazine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,3,5-Trinitrobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,3-Dichlorobenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,3-Dichlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,3-Dinitrobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,4-Dichlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,4-Dichlorobenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,4-Dinitrobenzene	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,4-Dioxane (p-Dioxane)	0	U		7500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1,4-Naphthoquinone	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1-Methylnaphthalene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	1-Naphthalenamine	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,2'-Oxybis(1-chloropropane)	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,3,4,6-Tetrachlorophenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,3-Dibromo-1-propanol phosph	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,3-Dichloroaniline	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4,5-T	0	U		40	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4,5-TP (Silvex)	0	U		40	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4,5-Trichlorophenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4,6-Trichlorophenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4-D	0	U		40	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4-Dichlorophenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4-Dimethylphenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4-Dinitrophenol	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,4-Dinitrotoluene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,6-Dichlorophenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2,6-Dinitrotoluene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Acetylaminofluorene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Chloronaphthalene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Chlorophenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Hexanone	0	U		250	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Methyl-5-nitroaniline	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Methylnaphthalene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Methylphenol(o-Cresol)	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Naphthalenamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Nitroaniline	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Nitrophenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	2-Picoline	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	3&4-Methylphenol(m&p Cresol)	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	3,3'-Dichlorobenzidine	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	3,3'-Dimethylbenzidine	0	U		250	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	3-Methylcholanthrene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	3-Nitroaniline	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4,4'-DDD	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4,4'-DDE	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4,4'-DDT	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4,4'-Methylene-bis(2-chloroani	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4,6-Dinitro-2-methylphenol	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4-Aminobiphenyl	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4-Bromophenylphenyl ether	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4-Chloro-3-methylphenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4-Chloroaniline	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4-Chlorophenylphenyl ether	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4-Nitroaniline	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4-Nitrophenol	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	4-Nitroquinoline-n-oxide	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	5-Nitro-o-toluidine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	7,12-Dimethylbenz(a)anthracene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	a,a-Dimethylphenylethylamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Acenaphthene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Acenaphthylene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Acetone	0	U		1250	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Acetonitrile	0	U		2500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Acetophenone	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Acrolein	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Acrylonitrile	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Aldrin	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Allyl chloride	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	alpha-BHC	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Aniline	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Anthracene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Antimony, Total	0.86	J		5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Aramite	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Arsenic, Total	8.1			5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Atrazine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Barium, Total	7.3			5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzal chloride	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzaldehyde	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzene	787			50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzidine	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzo(a)anthracene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzo(a)pyrene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzo(b)fluoranthene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzo(g,h,i)perylene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzo(k)fluoranthene	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzoic Acid	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzophenone	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Benzyl alcohol	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Beryllium, Total	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	beta-BHC	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Biphenyl (Diphenyl)	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	bis(2-Chloroethoxy)methane	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	bis(2-Chloroethyl) ether	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	bis(2-Ethylhexyl)phthalate	0	U		60	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Bromobenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Bromochloromethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Bromoform	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Bromomethane	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Butylbenzylphthalate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Cadmium, Total	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Caprolactam	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Carbazole	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Carbon disulfide	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Carbon tetrachloride	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chlordane (Technical)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chlorobenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chlorobenzilate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chloroethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chloroform	0	U		250	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chloromethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chloroprene	0	U		250	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chromium, Total	1.2	J		5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Chrysene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Cobalt, Total	0	U		5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Copper, Total	0.33	J		5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Cyanide	0	U		0	mg/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	delta-BHC	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Diallate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dibenz(a,h)anthracene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dibenzo(a,e)pyrene	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dibenzofuran	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dibromochloromethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dibromomethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dichlorobromomethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dichlorodifluoromethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dieldrin	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Diethylphthalate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dimethoate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dimethylphthalate	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Di-n-butylphthalate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Di-n-octylphthalate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Dinoseb	0	U		40	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Diphenyl ether (Phenyl ether)	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Diphenylamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Disulfoton	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Endosulfan I	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Endosulfan II	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Endosulfan sulfate	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Endrin	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Endrin aldehyde	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Ethyl methacrylate	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Ethyl methanesulfonate	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Ethylbenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Famphur	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Fluoranthene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Fluorene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	gamma-BHC (Lindane)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Heptachlor	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Heptachlor epoxide	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Hexachloro-1,3-butadiene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Hexachloro-1,3-butadiene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Hexachlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Hexachlorocyclopentadiene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Hexachloroethane	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Hexachlorophene	0	U		1000	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Hexachloropropene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Indeno(1,2,3-cd)pyrene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Iodomethane	0	U		1000	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Isobutanol	0	U		5000	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Isodrin	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Isophorone	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Isosafrole	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Kepone	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Lead, Total	0.059	J		1	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Mercury, Total	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methacrylonitrile	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methapyrilene	0	U		500	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methoxychlor	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methyl ethyl ketone	0	U		250	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methyl isobutenyl ketone	0	U		250	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methyl methacrylate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methyl methanesulfonate	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methyl parathion	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Methylene Chloride	0	U		250	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Naphthalene	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	n-Decane	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Nickel, Total	0.36	J		5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Nitrobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitrosodiethylamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitrosodimethylamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitroso-di-n-butylamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitroso-di-n-propylamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitrosodiphenylamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitrosomethylethylamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitrosomorpholine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitrosopiperidine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	N-Nitrosopyrrolidine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	n-Octadecane	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	O,O,O-Triethylphosphorothioate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	O-Toluidine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Parathion (Ethyl parathion)	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	PCB-1016 (Aroclor 1016)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	P-Dimethylaminoazobenzene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Pentachlorobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Pentachloroethane	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Pentachloronitrobenzene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Pentachlorophenol	0	U		200	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Phenacetin	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Phenanthrene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Phenol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Phorate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	p-Phenylenediamine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Pronamide	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Propionitrile	0	U		1000	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Pyrene	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Pyridine	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Safrole	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Selenium, Total	3.5	J		5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Silver, Total	0	U		5	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Styrene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Sulfide	0	U		1	mg/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Sulfotepp (Thiodiphosphoric Ac	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Terpineol	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Tetrachloroethylene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Thallium, Total	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Thionazin	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Tin, Total	0	U		20	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Toluene	22.1	J		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Toxaphene	0	U		0	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	trans-1,4-Dichloro-2-butene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Trichloroethylene	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Trichlorofluoromethane	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Vanadium, Total	6.3	J		10	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Vinyl acetate	0	U		100	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Vinyl chloride	0	U		50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Xylene (Total)	192			50	ug/L
MW-47A	MW-47A-060920	Permanent	Active	6/9/2020	5.21 - 15.21	Zinc, Total	7.7	J		10	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,1-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,1-Dichloroethene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,2-Dibromoethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,2-Dichloroethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,2-Dichloropropane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	2-Hexanone	0	U		5	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Acetone	0	U		25	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Benzene	1.4			1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Bromoform	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Bromomethane	0	U		2	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Carbon tetrachloride	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Chlorobenzene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Chloroethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Chloroform	0	U		5	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Chloromethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Cumene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Cyclohexane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Dibromochloromethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Dichlorobromomethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Dichlorodifluoromethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Ethylbenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Methyl acetate	0	U		10	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Methyl ethyl ketone	0	U		5	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Methylcyclohexane	0	U		10	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Methylene Chloride	0	U		5	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Styrene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Tetrachloroethylene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Toluene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Trichloroethylene	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Trichlorofluoromethane	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Vinyl acetate	0	U		2	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Vinyl chloride	0	U		1	ug/L
MW-47A	MW-47A-062520	Permanent	Active	6/25/2020	5.21 - 15.21	Xylene (Total)	0	U		1	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,1,1-Trichloroethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,1,2-Trichloroethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,1-Dichloroethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,1-Dichloroethene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,2,4-Trichlorobenzene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0			50	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,2-Dibromoethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,2-Dichlorobenzene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,2-Dichloroethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,2-Dichloropropane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,3-Dichlorobenzene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	1,4-Dichlorobenzene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	2-Hexanone	0			50	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Acetone	0			250	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Benzene	163		J	10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Bromoform	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Bromomethane	0			20	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Carbon tetrachloride	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Chlorobenzene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Chloroethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Chloroform	0			50	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Chloromethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	cis-1,2-Dichloroethylene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	cis-1,3-Dichloropropylene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Cumene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Cyclohexane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Dibromochloromethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Dichlorobromomethane	0			10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Dichlorodifluoromethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Ethylbenzene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Methyl acetate	0			100	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Methyl ethyl ketone	0			50	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Methyl isobutenyl ketone	0			50	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Methylcyclohexane	0			100	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Methylene Chloride	0			50	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Styrene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Tetrachloroethylene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Toluene	6.7	J	J	10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	trans-1,2-Dichloroethylene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	trans-1,3-Dichloropropylene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Trichloroethylene	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Trichlorofluoromethane	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Vinyl acetate	0			20	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Vinyl chloride	0			10	ug/L
MW-47A	MW-47A-102820	Permanent	Active	10/28/2020	5.21 - 15.21	Xylene (Total)	37.2		J	10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,1,1-Trichloroethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,1,2-Trichloroethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,1,2-Trichlorotrifluoroethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,1-Dichloroethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,1-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,1-Dichloroethene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,1-Dichloroethene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		20	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dibromoethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dibromoethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dichloroethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dichloroethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dichloropropane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,2-Dichloropropane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,3-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	1,4-Dichlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	1,4-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	2-Hexanone	0	U		50	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	2-Hexanone	0	U		25	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Acetone	0	U		250	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Acetone	0	U		125	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Benzene	132		J	5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Benzene	119			10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Bromoform	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Bromoform	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Bromomethane	0	U		20	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Bromomethane	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Carbon tetrachloride	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Carbon tetrachloride	0	U		5	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Chlorobenzene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Chlorobenzene	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Chloroethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Chloroethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Chloroform	0	U		50	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Chloroform	0	U		25	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Chloromethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Chloromethane	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Cumene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Cumene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Cyclohexane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Cyclohexane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Dibromochloromethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Dibromochloromethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Dibromomethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Dibromomethane	0	U		5	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Dichlorobromomethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Dichlorobromomethane	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Dichlorodifluoromethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Dichlorodifluoromethane	0	U		5	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Ethylbenzene	2.1	J	J	5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Ethylbenzene	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Methyl acetate	0	U		100	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Methyl acetate	0	U		50	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Methyl ethyl ketone	0	U		25	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Methyl ethyl ketone	0	U		50	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Methyl isobutenyl ketone	0	U		50	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Methyl isobutenyl ketone	0	U		25	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Methylcyclohexane	0	U		100	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Methylcyclohexane	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Methylene Chloride	0	U		50	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Methylene Chloride	0	U		25	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Styrene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Styrene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Tetrachloroethylene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Tetrachloroethylene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Toluene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Toluene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Trichloroethylene	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Trichloroethylene	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Trichlorofluoromethane	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Trichlorofluoromethane	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Vinyl acetate	0	U		20	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Vinyl acetate	0	U		10	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Vinyl chloride	0	U		10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Vinyl chloride	0	U		5	ug/L
MW-47A	MW-47A-040821	Permanent	Active	4/8/2021	5.21 - 15.21	Xylene (Total)	14.8			10	ug/L
MW-47A	MW-47A-040821_DUP	Permanent	Active	4/8/2021	5.21 - 15.21	Xylene (Total)	17.4		J	5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,1-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,1-Dichloroethene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,2-Dibromoethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,2-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,2-Dichloropropane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	2-Hexanone	0	U		10	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Acetone	120				ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Benzene	720				ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Bromoform	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Bromomethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Carbon disulfide	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Carbon tetrachloride	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Chlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Chloroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Chloroform	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Chloromethane	0	U		10	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Cumene	6.7				ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Cyclohexane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Dibromochloromethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Dichlorobromomethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Dichlorodifluoromethane	0	U		10	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Ethylbenzene	5.8				ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	m & p-Xylenes	120				ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Methyl acetate	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Methyl ethyl ketone	0	U		50	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Methylcyclohexane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Methylene chloride	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	o-Xylene	10				ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Styrene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Tetrachloroethylene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Toluene	54				ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Trichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Trichlorofluoromethane	0	U		5	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B_9/23/15_NM	Permanent	Active	9/23/2015	13.78 - 18.78	Vinyl chloride	0	U		2	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,1-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,1-Dichloroethene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,2-Dibromoethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,2-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,2-Dichloropropane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	2-Hexanone	0	U		10	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Acetone	0	U		50	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Benzene	1400				ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Bromoform	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Bromomethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Carbon disulfide	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Carbon tetrachloride	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Chlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Chloroethane	0	U		10	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Chloroform	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Chloromethane	0	U		10	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Cumene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Cyclohexane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Dibromochloromethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Dichlorobromomethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Dichlorodifluoromethane	0	U		10	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Ethylbenzene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	m & p-Xylenes	300				ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Methyl acetate	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Methyl ethyl ketone	0	U		50	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Methylcyclohexane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Methylene chloride	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	o-Xylene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Styrene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Tetrachloroethylene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Toluene	100				ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Trichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Trichlorofluoromethane	0	U		5	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B_7/26/16_NM	Permanent	Active	7/26/2016	13.78 - 18.78	Vinyl chloride	0	U		2	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,1-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,1-Dichloroethene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,2-Dibromoethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,2-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,2-Dichloropropane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	2-Hexanone	0	U		10	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Acetone	68			50	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Benzene	970			500	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Bromoform	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Bromomethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Carbon disulfide	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Carbon tetrachloride	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Chlorobenzene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Chloroethane	0	U		10	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Chloroform	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Chloromethane	0	U		10	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Cumene	4	J		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Cyclohexane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Dibromochloromethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Dichlorobromomethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Dichlorodifluoromethane	0	U		10	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Ethylbenzene	13			5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	m & p-Xylenes	240			5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Methyl acetate	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Methyl ethyl ketone	7.4	J		50	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Methylcyclohexane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Methylene chloride	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	o-Xylene	22			5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Styrene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Tetrachloroethylene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Toluene	60			5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Trichloroethylene	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Trichlorofluoromethane	0	U		5	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B_12/12/16_NM	Permanent	Active	12/12/2016	13.78 - 18.78	Vinyl chloride	0	U		2	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,1,1-Trichloroethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,1,2-Trichloroethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,1-Dichloroethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,1-Dichloroethene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U	UJ	50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,2-Dibromoethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,2-Dichlorobenzene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,2-Dichloroethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,2-Dichloropropane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,3-Dichlorobenzene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	1,4-Dichlorobenzene	0	U		50	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	2-Hexanone	0	U	UJ	100	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Acetone	75	J		500	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Benzene	1100			250	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Bromoform	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Bromomethane	0	U	UJ	50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Carbon disulfide	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Carbon tetrachloride	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Chlorobenzene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Chloroethane	0	U		100	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Chloroform	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Chloromethane	0	U		100	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U	UJ	50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Cumene	15	J		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Cyclohexane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Dibromochloromethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Dichlorobromomethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Dichlorodifluoromethane	0	U		100	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Ethylbenzene	14	J	J	50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	m & p-Xylenes	300		J	250	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Methyl acetate	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Methyl ethyl ketone	0	U	UJ	500	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Methyl isobutenyl ketone	0	U		100	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Methylcyclohexane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Methylene chloride	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	o-Xylene	33	J	J	50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Styrene	0	U	UJ	50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Tetrachloroethylene	0	U	UJ	50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Toluene	57			50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Trichloroethylene	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Trichlorofluoromethane	0	U		50	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Trichlorotrifluoroethane	0	U		100	ug/L
MW-47B	MW-47B-032617	Permanent	Active	3/26/2017	13.78 - 18.78	Vinyl chloride	0	U		20	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,1-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,1-Dichloroethene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,2-Dibromoethane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,2-Dichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,2-Dichloropropane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	2-Hexanone	0	U		10	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Acetone	43	J		50	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Benzene	850			50	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Bromoform	0	U	UJ	5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Bromomethane	0	U	UJ	5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Carbon disulfide	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Chlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Chloroethane	0	U		10	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Chloroform	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Chloromethane	0	U		10	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Cumene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Cyclohexane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Dibromochloromethane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Dichlorobromomethane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Dichlorodifluoromethane	0	U		10	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Ethylbenzene	13			5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	m & p-Xylenes	300			5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Methyl acetate	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Methyl ethyl ketone	0	U		50	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Methylcyclohexane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Methylene chloride	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	o-Xylene	24			5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Styrene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Tetrachloroethylene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Toluene	69			5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Trichloroethylene	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Trichlorofluoromethane	0	U		5	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B-061417	Permanent	Active	6/14/2017	13.78 - 18.78	Vinyl chloride	0	U		2	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,1,1-Trichloroethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,1,2-Trichloroethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,1-Dichloroethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,1-Dichloroethene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,2-Dibromoethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,2-Dichlorobenzene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,2-Dichloroethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,2-Dichloropropane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,3-Dichlorobenzene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	1,4-Dichlorobenzene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	2-Hexanone	0	U		50	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Acetone	85			50	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Benzene	778			10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Bromoform	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Bromomethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Carbon disulfide	0	U		50	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Carbon tetrachloride	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Chlorobenzene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Chloroethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Chloroform	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Chloromethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Cumene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Cyclohexane	0	U		50	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Dibromochloromethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Dichlorobromomethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Dichlorodifluoromethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Ethylbenzene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	m & p-Xylenes	292			20	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Methyl acetate	0	U		50	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Methyl ethyl ketone	0	U		50	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Methyl isobutenyl ketone	0	U		50	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Methylcyclohexane	0	U		50	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Methylene Chloride	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	o-Xylene	24.1			10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Styrene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Tetrachloroethylene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Toluene	53			10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Trichloroethylene	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Trichlorofluoromethane	0	U		10	ug/L
MW-47B	MW-47B-092917	Permanent	Active	9/29/2017	13.78 - 18.78	Vinyl chloride	0	U		10	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,1,2-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,1-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,1-Dichloroethene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,2-Dibromoethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,2-Dichloroethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,2-Dichloropropane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	2-Hexanone	0	U		25	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Acetone	63.2			25	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Benzene	508			5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Bromoform	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Bromomethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Carbon disulfide	0	U		25	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Carbon tetrachloride	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Chlorobenzene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Chloroethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Chloroform	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Chloromethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Cumene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Cyclohexane	0	U		25	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Dibromochloromethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Dichlorobromomethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Dichlorodifluoromethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Ethylbenzene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	m & p-Xylenes	235			10	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Methyl acetate	0	U		25	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Methyl ethyl ketone	0	U		25	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Methyl isobutenyl ketone	0	U		25	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Methylcyclohexane	0	U		25	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Methylene Chloride	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	o-Xylene	18.4			5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Styrene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Tetrachloroethylene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Toluene	32.3			5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Trichloroethylene	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Trichlorofluoromethane	0	U		5	ug/L
MW-47B	MW-47B-120217	Permanent	Active	12/2/2017	13.78 - 18.78	Vinyl chloride	0	U		5	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,1,1-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,1,2,2-Tetrachloroethane	35.3			1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,1-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,1-Dichloroethene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,2-Dibromoethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,2-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,2-Dichloropropane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	2-Hexanone	0	U		5	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Acetone	25.7		J	25	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Benzene	393			10	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Bromodichloromethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Bromoform	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Bromomethane	0	U		2	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Carbon disulfide	0	U		10	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Carbon tetrachloride	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Chlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Chloroethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Chloroform	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Chloromethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Cumene	0	U		10	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Cyclohexane	0	U		10	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Dibromochloromethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Dichlorodifluoromethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Ethylbenzene	8			1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	m & p-Xylenes	172			1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Methyl acetate	0	U		10	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Methyl ethyl ketone	0	U		5	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Methylcyclohexane	0	U		10	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Methylene Chloride	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	o-Xylene	15.5			1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Styrene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Tetrachloroethylene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Toluene	22.5			1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Trichloroethylene	6.4			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Trichlorofluoromethane	0	U		1	ug/L
MW-47B	MW-47B-022318	Permanent	Active	2/23/2018	13.78 - 18.78	Vinyl chloride	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,1-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,1-Dichloroethene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,2-Dibromoethane	0	U		2	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,2-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,2-Dichloropropane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	2-Hexanone	0	U		5	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Acetone	61.6		J	25	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Benzene	369		J	10	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Bromoform	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Bromomethane	0	U		2	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Carbon disulfide	0	U		10	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Carbon tetrachloride	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Chlorobenzene	4.1		J	1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Chloroethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Chloroform	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Chloromethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Cumene	0	U		10	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Cyclohexane	0	U		10	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Dibromochloromethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Dichlorobromomethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Dichlorodifluoromethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Ethylbenzene	5.3		J	1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	m & p-Xylenes	87.9		J	1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Methyl acetate	0	U		10	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Methyl ethyl ketone	0	U		5	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Methylcyclohexane	0	U		10	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Methylene Chloride	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	o-Xylene	10.3		J	1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Styrene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Tetrachloroethylene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Toluene	15.5		J	1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Trichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Trichlorofluoromethane	0	U		1	ug/L
MW-47B	MW-47B-051118	Permanent	Active	5/11/2018	13.78 - 18.78	Vinyl chloride	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,1-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,1-Dichloroethene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,2-Dibromoethane	0	U		2	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,2-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,2-Dichloropropane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	2-Hexanone	16.3		J	5	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Acetone	75			25	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Benzene	180		J	10	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Bromoform	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Bromomethane	0	U		2	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Carbon disulfide	0	U		10	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Carbon tetrachloride	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Chlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Chloroethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Chloroform	3.6			1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Chloromethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Cumene	0	U		10	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Cyclohexane	0	U		10	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Dibromochloromethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Dichlorobromomethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Dichlorodifluoromethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Ethylbenzene	4.7			1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	m & p-Xylenes	44.1			1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Methyl acetate	0	U		10	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Methyl ethyl ketone	5.4			5	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Methylcyclohexane	0	U		10	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Methylene Chloride	8			1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	o-Xylene	9			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Styrene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Tetrachloroethylene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Toluene	9.5		J	1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Trichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Trichlorofluoromethane	0	U		1	ug/L
MW-47B	MW-47B-080318	Permanent	Active	8/3/2018	13.78 - 18.78	Vinyl chloride	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,1-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,1-Dichloroethene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,2-Dibromoethane	0	U		2	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,2-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,2-Dichloropropane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	2-Hexanone	6.1			5	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Acetone	82.4			25	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Benzene	137			1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Bromoform	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Bromomethane	0	U		2	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Carbon disulfide	0	U		10	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Carbon tetrachloride	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Chlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Chloroethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Chloroform	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Chloromethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Cumene	0	U		10	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Cyclohexane	0	U		10	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Dibromochloromethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Dichlorobromomethane	0	U	U	2.4	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Dichlorodifluoromethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Ethylbenzene	3.2			1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	m & p-Xylenes	35.4			1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Methyl acetate	0	U		10	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Methyl ethyl ketone	0	U		5	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Methylcyclohexane	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Methylene Chloride	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	o-Xylene	6			1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Styrene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Tetrachloroethylene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Toluene	8.2			1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Trichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Trichlorofluoromethane	0	U		1	ug/L
MW-47B	MW-47B-042519	Permanent	Active	4/25/2019	13.78 - 18.78	Vinyl chloride	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,1-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,1-Dichloroethene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,2-Dibromoethane	0	U		2	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,2-Dichloroethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,2-Dichloropropane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	2-Hexanone	32.2		J	5	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Acetone	52.9			25	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Benzene	532		J	10	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Bromoform	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Bromomethane	4.6		J	2	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Carbon disulfide	0	U		10	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Carbon tetrachloride	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Chlorobenzene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Chloroethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Chloroform	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Chloromethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Cumene	0	U		10	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Cyclohexane	0	U		10	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Dibromochloromethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Dichlorobromomethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Dichlorodifluoromethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Ethylbenzene	5.3		J	1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	m & p-Xylenes	74.3			1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Methyl acetate	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Methyl ethyl ketone	0	U		5	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Methyl isobutenyl ketone	0	U	UR	5	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Methylcyclohexane	0	U		10	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Methylene Chloride	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	o-Xylene	8.9			1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Styrene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Tetrachloroethylene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Toluene	56.4			1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Trichloroethylene	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Trichlorofluoromethane	0	U		1	ug/L
MW-47B	MW-47B-112219	Permanent	Active	11/22/2019	13.78 - 18.78	Vinyl chloride	0	U		1	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,1,1-Trichloroethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,1,2-Trichloroethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,1,2-Trichlorotrifluoroethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,1-Dichloroethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,1-Dichloroethene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		125	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,2-Dibromoethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,2-Dichlorobenzene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,2-Dichloroethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,2-Dichloropropane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,3-Dichlorobenzene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	1,4-Dichlorobenzene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	2-Hexanone	0	U		125	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Acetone	0	U		625	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Benzene	356		J	25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Bromoform	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Bromomethane	0	U		50	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Carbon disulfide	0	U		50	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Carbon tetrachloride	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Chlorobenzene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Chloroethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Chloroform	0	U		125	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Chloromethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Cumene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Cyclohexane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Dibromochloromethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Dichlorobromomethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Dichlorodifluoromethane	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Ethylbenzene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	m & p-Xylenes	72.9		J	50	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Methyl acetate	0	U		250	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Methyl ethyl ketone	0	U		125	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Methyl isobutenyl ketone	0	U		125	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Methylcyclohexane	0	U		250	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Methylene Chloride	0	U		125	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	o-Xylene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Styrene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Tetrachloroethylene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Toluene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Trichloroethylene	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Trichlorofluoromethane	0	U		25	ug/L
MW-47B	MW-47B-042920	Permanent	Active	4/29/2020	13.78 - 18.78	Vinyl chloride	0	U		25	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,1,1-Trichloroethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,1,2-Trichloroethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,1,2-Trichlorotrifluoroethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,1-Dichloroethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,1-Dichloroethene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,2,4-Trichlorobenzene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0			10	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,2-Dibromoethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,2-Dichlorobenzene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,2-Dichloroethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,2-Dichloropropane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,3-Dichlorobenzene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	1,4-Dichlorobenzene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	2-Hexanone	0			10	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Acetone	124		J	50	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Benzene	81		J	2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Bromoform	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Bromomethane	0			4	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Carbon tetrachloride	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Chlorobenzene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Chloroethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Chloroform	0			10	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Chloromethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	cis-1,2-Dichloroethylene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	cis-1,3-Dichloropropylene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Cumene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Cyclohexane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Dibromochloromethane	0			2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Dichlorobromomethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Dichlorodifluoromethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Ethylbenzene	1.9	J	J	2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Methyl acetate	0			20	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Methyl ethyl ketone	13.6		J	10	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Methyl isobutenyl ketone	0			10	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Methylcyclohexane	0			20	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Methylene Chloride	0			10	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Styrene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Tetrachloroethylene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Toluene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	trans-1,2-Dichloroethylene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	trans-1,3-Dichloropropylene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Trichloroethylene	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Trichlorofluoromethane	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Vinyl acetate	0			4	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Vinyl chloride	0			2	ug/L
MW-47B	MW-47B-102820	Permanent	Active	10/28/2020	13.78 - 18.78	Xylene (Total)	46.1		J	2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,1,1-Trichloroethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,1,2-Trichloroethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,1,2-Trichlorotrifluoroethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,1-Dichloroethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,1-Dichloroethene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,2-Dibromo-3-chloropropane	0	U		4	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,2-Dibromoethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,2-Dichlorobenzene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,2-Dichloroethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,2-Dichloropropane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,3-Dichlorobenzene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	1,4-Dichlorobenzene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	2-Hexanone	0	U		10	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Acetone	46.4	J		50	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Benzene	326		J	2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Bromoform	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Bromomethane	0	U		4	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Carbon tetrachloride	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Chlorobenzene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Chloroethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Chloroform	0	U		10	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Chloromethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	cis-1,2-Dichloroethylene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Cumene	5.1		J	2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Cyclohexane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Dibromochloromethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Dibromomethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Dichlorobromomethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Dichlorodifluoromethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Ethylbenzene	7		J	2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Methyl acetate	0	U		20	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Methyl ethyl ketone	0	U		10	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Methylcyclohexane	0	U		20	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Methylene Chloride	0	U		10	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Styrene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Tetrachloroethylene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Toluene	22.9		J	2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Trichloroethylene	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Trichlorofluoromethane	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Vinyl acetate	0	U		4	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Vinyl chloride	0	U		2	ug/L
MW-47B	MW-47B-040821	Permanent	Active	4/8/2021	13.78 - 18.78	Xylene (Total)	154		J	2	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	2-Hexanone	0	U		10	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Acetone	140				ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Benzene	130				ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Bromoform	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Bromomethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Carbon disulfide	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Carbon tetrachloride	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Chlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Chloroethane	0	U		10	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Chloroform	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Chloromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Cumene	39				ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Cyclohexane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Dibromochloromethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Dichlorobromomethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Dichlorodifluoromethane	0	U		10	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Ethylbenzene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	m & p-Xylenes	29				ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Methyl acetate	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Methyl ethyl ketone	0	U		50	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Methylcyclohexane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Methylene chloride	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	o-Xylene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Styrene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Tetrachloroethylene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Toluene	34				ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Trichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C_9/23/15_NM	Permanent	Active	9/23/2015	18.35 - 23.35	Vinyl chloride	0	U		2	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	2-Hexanone	0	U		10	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Acetone	59				ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Benzene	360				ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Bromoform	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Bromomethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Carbon disulfide	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Carbon tetrachloride	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Chlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Chloroethane	0	U		10	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Chloroform	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Chloromethane	0	U		10	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Cumene	14				ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Cyclohexane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Dibromochloromethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Dichlorobromomethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Dichlorodifluoromethane	0	U		10	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Ethylbenzene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	m & p-Xylenes	54				ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Methyl acetate	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Methyl ethyl ketone	0	U		50	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Methylcyclohexane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Methylene chloride	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	o-Xylene	6.4				ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Styrene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Tetrachloroethylene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Toluene	51				ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Trichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C_7/26/16_NM	Permanent	Active	7/26/2016	18.35 - 23.35	Vinyl chloride	0	U		2	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	2-Hexanone	0	U		10	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Acetone	16	J		50	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Benzene	430			200	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Bromoform	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Bromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Carbon disulfide	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Carbon tetrachloride	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Chlorobenzene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Chloroethane	0	U		10	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Chloroform	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Chloromethane	0	U		10	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Cumene	13			5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Cyclohexane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Dibromochloromethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Dichlorobromomethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Dichlorodifluoromethane	0	U		10	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Ethylbenzene	3.9	J		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	m & p-Xylenes	41			5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Methyl acetate	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Methyl ethyl ketone	0	U		50	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Methylcyclohexane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Methylene chloride	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	o-Xylene	7.8			5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Styrene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Tetrachloroethylene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Toluene	44			5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Trichloroethylene	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C_12/12/16_NM	Permanent	Active	12/12/2016	18.35 - 23.35	Vinyl chloride	0	U		2	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,1,1-Trichloroethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,1,2-Trichloroethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,1-Dichloroethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,1-Dichloroethene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U	UJ	50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,2-Dibromoethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,2-Dichlorobenzene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,2-Dichloroethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,2-Dichloropropane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,3-Dichlorobenzene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	1,4-Dichlorobenzene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	2-Hexanone	0	U	UJ	100	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Acetone	42	J		500	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Benzene	390			50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Bromoform	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Bromomethane	0	U	UJ	50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Carbon disulfide	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Carbon tetrachloride	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Chlorobenzene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Chloroethane	0	U		100	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Chloroform	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Chloromethane	0	U		100	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U	UJ	50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Cumene	20	J		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Cyclohexane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Dibromochloromethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Dichlorobromomethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Dichlorodifluoromethane	0	U		100	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Ethylbenzene	0	U	UJ	50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	m & p-Xylenes	41	J	J	50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Methyl acetate	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Methyl ethyl ketone	0	U	UJ	500	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Methyl isobutenyl ketone	0	U		100	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Methylcyclohexane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Methylene chloride	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	o-Xylene	21	J	J	50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Styrene	0	U	UJ	50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Tetrachloroethylene	0	U	UJ	50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Toluene	37	J		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Trichloroethylene	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Trichlorofluoromethane	0	U		50	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Trichlorotrifluoroethane	0	U		100	ug/L
MW-47C	MW-47C-032617	Permanent	Active	3/26/2017	18.35 - 23.35	Vinyl chloride	0	U		20	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,3-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	2-Hexanone	0	U		10	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Acetone	44	J		50	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Benzene	410			50	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Bromoform	0	U	UJ	5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Bromomethane	0	U	UJ	5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Carbon disulfide	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Chlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Chloroethane	0	U		10	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Chloroform	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Chloromethane	0	U		10	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Cumene	13			5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Cyclohexane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Dibromochloromethane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Dichlorobromomethane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Dichlorodifluoromethane	0	U		10	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Ethylbenzene	3.7	J		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	m & p-Xylenes	53			5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Methyl acetate	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Methyl ethyl ketone	0	U		50	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Methylcyclohexane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Methylene chloride	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	o-Xylene	7.4			5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Styrene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Tetrachloroethylene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Toluene	33			5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Trichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C-061417	Permanent	Active	6/14/2017	18.35 - 23.35	Vinyl chloride	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,1,1-Trichloroethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,1,2-Trichloroethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,1-Dichloroethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,1-Dichloroethene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,2-Dibromoethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,2-Dichlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,2-Dichloroethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,2-Dichloropropane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,3-Dichlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	1,4-Dichlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	2-Hexanone	0	U		12	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Acetone	42.2			12	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Benzene	353			2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Bromoform	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Bromomethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Carbon disulfide	0	U		12	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Carbon tetrachloride	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Chlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Chloroethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Chloroform	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Chloromethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Cumene	12.1			2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Cyclohexane	0	U		12	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Dibromochloromethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Dichlorobromomethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Dichlorodifluoromethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Ethylbenzene	3.5			2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	m & p-Xylenes	58.2			5	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Methyl acetate	0	U		12	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Methyl ethyl ketone	0	U		12	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Methyl isobutenyl ketone	0	U		12	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Methylcyclohexane	0	U		12	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Methylene Chloride	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	o-Xylene	7.4			2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Styrene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Tetrachloroethylene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Toluene	27.3			2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Trichloroethylene	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Trichlorofluoromethane	0	U		2	ug/L
MW-47C	MW-47C-092917	Permanent	Active	9/29/2017	18.35 - 23.35	Vinyl chloride	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,1,1-Trichloroethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,1,2-Trichloroethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,1-Dichloroethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,1-Dichloroethene	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,2-Dibromoethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,2-Dichlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,2-Dichloroethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,2-Dichloropropane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,3-Dichlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	1,4-Dichlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	2-Hexanone	0	U		12	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Acetone	52.5			12	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Benzene	333			2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Bromoform	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Bromomethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Carbon disulfide	0	U		12	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Carbon tetrachloride	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Chlorobenzene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Chloroethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Chloroform	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Chloromethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Cumene	4.5			2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Cyclohexane	0	U		12	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Dibromochloromethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Dichlorobromomethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Dichlorodifluoromethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Ethylbenzene	3.2			2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	m & p-Xylenes	46.6			5	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Methyl acetate	0	U		12	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Methyl ethyl ketone	0	U		12	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Methyl isobutenyl ketone	0	U		12	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Methylcyclohexane	0	U		12	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Methylene Chloride	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	o-Xylene	6.8			2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Styrene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Tetrachloroethylene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Toluene	22.9			2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Trichloroethylene	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Trichlorofluoromethane	0	U		2	ug/L
MW-47C	MW-47C-120217	Permanent	Active	12/2/2017	18.35 - 23.35	Vinyl chloride	0	U		2	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,1,2,2-Tetrachloroethane	36.1			1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,1,2-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,1-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,1-Dichloroethene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,2-Dibromoethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,2-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,2-Dichloropropane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	2-Hexanone	0	U		5	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Acetone	28		J	25	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Benzene	336			10	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Bromodichloromethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Bromoform	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Bromomethane	0	U		2	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Carbon disulfide	0	U		10	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Carbon tetrachloride	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Chlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Chloroethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Chloroform	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Chloromethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Cumene	13			10	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Cyclohexane	0	U		10	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Dibromochloromethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Dichlorodifluoromethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Ethylbenzene	4.1			1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	m & p-Xylenes	56.6			1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Methyl acetate	0	U		10	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Methyl ethyl ketone	0	U		5	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Methylcyclohexane	0	U		10	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Methylene Chloride	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	o-Xylene	9.3			1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Styrene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Tetrachloroethylene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Toluene	25.3			1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Trichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Trichlorofluoromethane	0	U		1	ug/L
MW-47C	MW-47C-022318	Permanent	Active	2/23/2018	18.35 - 23.35	Vinyl chloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,1-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,1-Dichloroethene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,2-Dibromoethane	0	U		2	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,2-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,2-Dichloropropane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	2-Hexanone	0	U		5	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Acetone	57		J	25	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Benzene	491		J	10	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Bromoform	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Bromomethane	0	U		2	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Carbon disulfide	0	U		10	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Carbon tetrachloride	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Chlorobenzene	1.2		J	1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Chloroethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Chloroform	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Chloromethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Cumene	0	U		10	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Cyclohexane	0	U		10	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Dibromochloromethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Dichlorobromomethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Dichlorodifluoromethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Ethylbenzene	5		J	1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	m & p-Xylenes	83.9		J	1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Methyl acetate	0	U		10	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Methyl ethyl ketone	0	U		5	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Methylcyclohexane	0	U		10	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Methylene Chloride	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	o-Xylene	10.7		J	1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Styrene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Tetrachloroethylene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Toluene	26.1		J	1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Trichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Trichlorofluoromethane	0	U		1	ug/L
MW-47C	MW-47C-051118	Permanent	Active	5/11/2018	18.35 - 23.35	Vinyl chloride	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,1-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,1-Dichloroethene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,2-Dibromoethane	0	U		2	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,2-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,2-Dichloropropane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	2-Hexanone	0	U		5	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Acetone	152			25	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Benzene	202			10	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Bromoform	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Bromomethane	0	U		2	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Carbon disulfide	0	U		10	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Carbon tetrachloride	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Chlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Chloroethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Chloroform	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Chloromethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Cumene	0	U		10	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Cyclohexane	0	U		10	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Dibromochloromethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Dichlorobromomethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Dichlorodifluoromethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Ethylbenzene	3.7			1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	m & p-Xylenes	37.5			1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Methyl acetate	0	U		10	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Methyl ethyl ketone	5.5			5	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Methylcyclohexane	0	U		10	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Methylene Chloride	0	U	U	2.8	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	o-Xylene	8			1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Styrene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Tetrachloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Toluene	17.2		J	1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Trichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Trichlorofluoromethane	0	U		1	ug/L
MW-47C	MW-47C-080318	Permanent	Active	8/3/2018	18.35 - 23.35	Vinyl chloride	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,1-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,1-Dichloroethene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,2-Dibromoethane	0	U		2	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,2-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,2-Dichloropropane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	2-Hexanone	9.9			5	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Acetone	131			25	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Benzene	134			1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Bromoform	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Bromomethane	0	U		2	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Carbon disulfide	0	U		10	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Carbon tetrachloride	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Chlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Chloroethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Chloroform	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Chloromethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Cumene	0	U		10	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Cyclohexane	0	U		10	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Dibromochloromethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Dichlorobromomethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Dichlorodifluoromethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Ethylbenzene	3.4			1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	m & p-Xylenes	47			1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Methyl acetate	0	U		10	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Methyl ethyl ketone	0	U		5	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Methylcyclohexane	0	U		10	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Methylene Chloride	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	o-Xylene	7.5			1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Styrene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Tetrachloroethylene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Toluene	15.8			1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Trichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Trichlorofluoromethane	0	U		1	ug/L
MW-47C	MW-47C-042519	Permanent	Active	4/25/2019	18.35 - 23.35	Vinyl chloride	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,1-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,1-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,1-Dichloroethene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,1-Dichloroethene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dibromoethane	0	U		2	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dibromoethane	0	U		2	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dichloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dichloropropane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,2-Dichloropropane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	2-Hexanone	0	U		5	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	2-Hexanone	0	U		5	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Acetone	227		J	25	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Acetone	157		J	25	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Benzene	77.3			1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Benzene	75.6			1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Bromoform	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Bromoform	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Bromomethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Bromomethane	0	U		2	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Carbon disulfide	0	U		10	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Carbon disulfide	0	U		10	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Carbon tetrachloride	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Carbon tetrachloride	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Chlorobenzene	1.1			1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Chlorobenzene	1			1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Chloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Chloroethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Chloroform	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Chloroform	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Chloromethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Chloromethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Cumene	0	U		10	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Cumene	0	U		10	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Cyclohexane	0	U		10	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Cyclohexane	0	U		10	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Dibromochloromethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Dibromochloromethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Dichlorobromomethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Dichlorobromomethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Dichlorodifluoromethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Dichlorodifluoromethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Ethylbenzene	2			1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Ethylbenzene	1.9			1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	m & p-Xylenes	20			1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	m & p-Xylenes	19			1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Methyl acetate	0	U		10	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Methyl acetate	0	U		10	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Methyl ethyl ketone	0	U		5	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Methyl ethyl ketone	0	U		5	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Methyl isobutenyl ketone	0	U		5	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Methylcyclohexane	0	U		10	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Methylcyclohexane	0	U		10	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Methylene Chloride	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Methylene Chloride	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	o-Xylene	4.4			1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	o-Xylene	4.4			1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Styrene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Styrene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Tetrachloroethylene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Tetrachloroethylene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Toluene	9.6			1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Toluene	9.1			1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Trichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Trichloroethylene	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Trichlorofluoromethane	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Trichlorofluoromethane	0	U		1	ug/L
MW-47C	MW-47C-112219-DUP	Permanent	Active	11/22/2019	18.35 - 23.35	Vinyl chloride	0	U		1	ug/L
MW-47C	MW-47C-112219	Permanent	Active	11/22/2019	18.35 - 23.35	Vinyl chloride	0	U		1	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,1,1-Trichloroethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,1,2-Trichloroethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,1-Dichloroethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,1-Dichloroethene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		25	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		50	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dibromoethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dichlorobenzene	0	U		10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dichloroethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,2-Dichloropropane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,3-Dichlorobenzene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	1,4-Dichlorobenzene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	2-Hexanone	0	U		25	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	2-Hexanone	0	U		50	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Acetone	0	U		250	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Acetone	0	U		125	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Benzene	143		J	5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Benzene	159			10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Bromoform	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Bromoform	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Bromomethane	0	U		10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Bromomethane	0	U		20	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Carbon disulfide	0	U		10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Carbon disulfide	0	U		20	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Carbon tetrachloride	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Carbon tetrachloride	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Chlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Chlorobenzene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Chloroethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Chloroethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Chloroform	0	U		25	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Chloroform	0	U		50	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Chloromethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Chloromethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Cumene	9		J	5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Cumene	10.6			10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Cyclohexane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Cyclohexane	0	U		10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Dibromochloromethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Dibromochloromethane	0	U		5	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Dichlorobromomethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Dichlorobromomethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Dichlorodifluoromethane	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Dichlorodifluoromethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Ethylbenzene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Ethylbenzene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	m & p-Xylenes	30.8		J	10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	m & p-Xylenes	34.5			20	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Methyl acetate	0	U		50	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Methyl acetate	0	U		100	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Methyl ethyl ketone	0	U		25	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Methyl ethyl ketone	0	U		50	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Methyl isobutenyl ketone	64.5			50	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Methyl isobutenyl ketone	0	U		25	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Methylcyclohexane	0	U		50	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Methylcyclohexane	0	U		100	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Methylene Chloride	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Methylene Chloride	0	U		25	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	o-Xylene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	o-Xylene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Styrene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Styrene	0	U		10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Tetrachloroethylene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Tetrachloroethylene	0	U		5	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Toluene	17.8		J	5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Toluene	20			10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Trichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Trichloroethylene	0	U		10	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Trichlorofluoromethane	0	U		10	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47C	MW-47C-042920	Permanent	Active	4/29/2020	18.35 - 23.35	Vinyl chloride	0	U		5	ug/L
MW-47C	MW-47C-042920_DUP	Permanent	Active	4/29/2020	18.35 - 23.35	Vinyl chloride	0	U		10	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,1,1-Trichloroethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,1,2-Trichloroethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,1-Dichloroethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,1-Dichloroethene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,2,4-Trichlorobenzene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0			25	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,2-Dibromoethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,2-Dichlorobenzene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,2-Dichloroethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,2-Dichloropropane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,3-Dichlorobenzene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	1,4-Dichlorobenzene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	2-Hexanone	0			25	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Acetone	57	J		125	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Benzene	179		J	5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Bromoform	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Bromomethane	0			10	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Carbon tetrachloride	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Chlorobenzene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Chloroethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Chloroform	0			25	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Chloromethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	cis-1,2-Dichloroethylene	0			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	cis-1,3-Dichloropropylene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Cumene	5.5		J	5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Cyclohexane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Dibromochloromethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Dichlorobromomethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Dichlorodifluoromethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Ethylbenzene	2.6	J	J	5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Methyl acetate	0			50	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Methyl ethyl ketone	0			25	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Methyl isobutenyl ketone	0			25	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Methylcyclohexane	0			50	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Methylene Chloride	0			25	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Styrene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Tetrachloroethylene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Toluene	18.3		J	5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	trans-1,2-Dichloroethylene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	trans-1,3-Dichloropropylene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Trichloroethylene	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Trichlorofluoromethane	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Vinyl acetate	0			10	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Vinyl chloride	0			5	ug/L
MW-47C	MW-47C-102820	Permanent	Active	10/28/2020	18.35 - 23.35	Xylene (Total)	25.9		J	5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,1,2-Trichlorotrifluoroethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	2-Hexanone	0	U		25	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Acetone	54.5	J		125	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Benzene	380		J	5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Bromoform	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Bromomethane	0	U		10	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Carbon tetrachloride	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Chlorobenzene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Chloroethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Chloroform	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Chloromethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Cumene	8.2		J	5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Cyclohexane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Dibromochloromethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Dibromomethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Dichlorobromomethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Dichlorodifluoromethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Ethylbenzene	5	J	J	5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Methyl acetate	0	U		50	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Methyl ethyl ketone	0	U		25	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Methyl isobutenyl ketone	0	U		25	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Methylcyclohexane	0	U		50	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Methylene Chloride	0	U		25	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Styrene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Tetrachloroethylene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Toluene	27.5		J	5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Trichloroethylene	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Vinyl acetate	0	U		10	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Vinyl chloride	0	U		5	ug/L
MW-47C	MW-47C-040821	Permanent	Active	4/8/2021	18.35 - 23.35	Xylene (Total)	90.6		J	5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	2-Hexanone	0	U		10	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Acetone	0	U		50	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Benzene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Bromoform	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Bromomethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Carbon disulfide	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Chlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Chloroethane	0	U		10	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Chloroform	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Chloromethane	0	U		10	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Cumene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Cyclohexane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Dibromochloromethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Dichlorobromomethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Dichlorodifluoromethane	0	U		10	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Ethylbenzene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	m & p-Xylenes	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Methyl acetate	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Methyl ethyl ketone	0	U		50	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Methyl isobutenyl ketone	0	U		10	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Methylcyclohexane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Methylene chloride	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	o-Xylene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Styrene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Tetrachloroethylene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Toluene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Trichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47D	MW-47D_10/8/15_NM	Permanent	Active	10/8/2015	34.35 - 39.35	Vinyl chloride	0	U		2	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	2-Hexanone	21				ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Acetone	390				ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Benzene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Bromoform	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Bromomethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Carbon disulfide	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Carbon tetrachloride	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Chlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Chloroethane	0	U		10	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Chloroform	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Chloromethane	0	U		10	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Cumene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Cyclohexane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Dibromochloromethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Dichlorobromomethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Dichlorodifluoromethane	0	U		10	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Ethylbenzene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	m & p-Xylenes	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Methyl acetate	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Methyl ethyl ketone	0	U		50	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Methyl isobutanyl ketone	13				ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Methylcyclohexane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Methylene chloride	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	o-Xylene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Styrene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Tetrachloroethylene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Toluene	7				ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Trichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47D	MW-47D_7/27/16_NM	Permanent	Active	7/27/2016	34.35 - 39.35	Vinyl chloride	0	U		2	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,1,1-Trichloroethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,1,2-Trichloroethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,1-Dichloroethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,1-Dichloroethene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,2-Dibromoethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,2-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,2-Dichloroethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,2-Dichloropropane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,3-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	1,4-Dichlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	2-Hexanone	8.6	J		10	ug/L

**Appendix B - Historical Groundwater Analytical Data**

**Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Acetone	29	J		50	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Benzene	1.2	J		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Bromoform	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Bromomethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Carbon disulfide	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Carbon tetrachloride	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Chlorobenzene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Chloroethane	0	U		10	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Chloroform	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Chloromethane	0	U		10	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Cumene	3.5	J		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Cyclohexane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Dibromochloromethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Dichlorobromomethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Dichlorodifluoromethane	0	U		10	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Ethylbenzene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	m & p-Xylenes	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Methyl acetate	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Methyl ethyl ketone	0	U		50	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Methyl isobutenyl ketone	20			10	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Methylcyclohexane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Methylene chloride	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	o-Xylene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Styrene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Tetrachloroethylene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Toluene	11			5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Trichloroethylene	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Trichlorofluoromethane	0	U		5	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Trichlorotrifluoroethane	0	U		10	ug/L
MW-47D	MW-47D_12/13/16_NM	Permanent	Active	12/13/2016	34.35 - 39.35	Vinyl chloride	0	U		2	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,1,1-Trichloroethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,1,2-Trichloroethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,1-Dichloroethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,1-Dichloroethene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,2-Dibromoethane	0	U		2	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,2-Dichlorobenzene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,2-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,2-Dichloropropane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,3-Dichlorobenzene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	1,4-Dichlorobenzene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	2-Hexanone	6.4		J	5	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Acetone	66.4			25	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Benzene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Bromoform	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Bromomethane	0	U		2	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Carbon disulfide	0	U		10	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Carbon tetrachloride	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Chlorobenzene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Chloroethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Chloroform	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Chloromethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Cumene	0	U		10	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Cyclohexane	0	U		10	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Dibromochloromethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Dichlorobromomethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Dichlorodifluoromethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Ethylbenzene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	m & p-Xylenes	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Methyl acetate	0	U		10	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Methyl ethyl ketone	0	U		5	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Methyl isobutenyl ketone	18.3			5	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Methylcyclohexane	0	U		10	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Methylene Chloride	3.2			1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	o-Xylene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Styrene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Tetrachloroethylene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Toluene	6.4		J	1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Trichloroethylene	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Trichlorofluoromethane	0	U		1	ug/L
MW-47D	MW-47D-080318	Permanent	Active	8/3/2018	34.35 - 39.35	Vinyl chloride	0	U		1	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,1,1-Trichloroethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,1,2-Trichloroethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,1-Dichloroethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,1-Dichloroethene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,2-Dibromoethane	0	U		5	ug/L

Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,2-Dichlorobenzene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,2-Dichloroethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,2-Dichloropropane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,3-Dichlorobenzene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	1,4-Dichlorobenzene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	2-Hexanone	0	U		10	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Acetone	0	U		50	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Benzene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Bromoform	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Bromomethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Carbon disulfide	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Carbon tetrachloride	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Chlorobenzene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Chloroethane	0	U		10	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Chloroform	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Chloromethane	0	U		10	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Cumene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Cyclohexane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Dibromochloromethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Dichlorobromomethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Dichlorodifluoromethane	0	U		10	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Ethylbenzene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	m & p-Xylenes	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Methyl acetate	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Methyl ethyl ketone	0	U		50	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Methyl isobutenyl ketone	0	U		10	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Methylcyclohexane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Methylene chloride	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	o-Xylene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Styrene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Tetrachloroethylene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Toluene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Trichloroethylene	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Trichlorofluoromethane	0	U		5	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Trichlorotrifluoroethane	0	U		10	ug/L
MW-48	MW-48_8/10/15_NM	Permanent	Active	8/10/2015	5.3 - 15.3	Vinyl chloride	0	U		2	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,1,1-Trichloroethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,1,2-Trichloroethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,1-Dichloroethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,1-Dichloroethene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,2-Dibromoethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,2-Dichlorobenzene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,2-Dichloroethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,2-Dichloropropane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,3-Dichlorobenzene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	1,4-Dichlorobenzene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	2-Hexanone	0	U		10	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Acetone	0	U		50	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Benzene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Bromoform	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Bromomethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Carbon disulfide	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Carbon tetrachloride	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Chlorobenzene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Chloroethane	0	U		10	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Chloroform	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Chloromethane	0	U		10	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Cumene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Cyclohexane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Dibromochloromethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Dichlorobromomethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Dichlorodifluoromethane	0	U		10	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Ethylbenzene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	m & p-Xylenes	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Methyl acetate	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Methyl ethyl ketone	0	U		50	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Methyl isobutenyl ketone	0	U		10	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Methylcyclohexane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Methylene chloride	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	o-Xylene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Styrene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Tetrachloroethylene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Toluene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Trichloroethylene	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Trichlorofluoromethane	0	U		5	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Trichlorotrifluoroethane	0	U		10	ug/L
MW-48	MW-48_12/14/16_NM	Permanent	Active	12/14/2016	5.3 - 15.3	Vinyl chloride	0	U		2	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,1,1-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,1,2-Trichloroethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,1-Dichloroethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,1-Dichloroethene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,2-Dibromoethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,2-Dichlorobenzene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,2-Dichloroethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,2-Dichloropropane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,3-Dichlorobenzene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	1,4-Dichlorobenzene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	2-Hexanone	0	U		5	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Acetone	0	U		5	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Benzene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Bromoform	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Bromomethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Carbon disulfide	0	U		5	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Carbon tetrachloride	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Chlorobenzene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Chloroethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Chloroform	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Chloromethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Cumene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Cyclohexane	0	U		5	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Dibromochloromethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Dichlorobromomethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Dichlorodifluoromethane	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Ethylbenzene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	m & p-Xylenes	0	U		2	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Methyl acetate	0	U		5	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Methyl ethyl ketone	0	U		5	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Methyl isobutenyl ketone	0	U		5	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Methylcyclohexane	0	U		5	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Methylene Chloride	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	o-Xylene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Styrene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Tetrachloroethylene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Toluene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Trichloroethylene	0	U		1	ug/L
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Trichlorofluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-48	MW-48-092817	Permanent	Active	9/28/2017	5.3 - 15.3	Vinyl chloride	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,1,1-Trichloroethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,1,2-Trichloroethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,1-Dichloroethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,1-Dichloroethene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,2-Dibromoethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,2-Dichlorobenzene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,2-Dichloroethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,2-Dichloropropane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,3-Dichlorobenzene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	1,4-Dichlorobenzene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	2-Hexanone	0	U		5	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Acetone	0	U		5	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Benzene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Bromoform	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Bromomethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Carbon disulfide	0	U		5	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Carbon tetrachloride	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Chlorobenzene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Chloroethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Chloroform	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Chloromethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Cumene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Cyclohexane	0	U		5	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Dibromochloromethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Dichlorobromomethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Dichlorodifluoromethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Ethylbenzene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	m & p-Xylenes	0	U		2	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Methyl acetate	0	U		5	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Methyl ethyl ketone	0	U		5	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Methyl isobutenyl ketone	0	U		5	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Methylcyclohexane	0	U		5	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Methylene Chloride	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	o-Xylene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Styrene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Tetrachloroethylene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Toluene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Trichloroethylene	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Trichlorofluoromethane	0	U		1	ug/L
MW-48	MW-48-120117	Permanent	Active	12/1/2017	5.3 - 15.3	Vinyl chloride	0	U		1	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1,1-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1,1-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1,2-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1,2-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1-Dichloroethene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,1-Dichloroethene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dibromoethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dibromoethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dichloropropane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,2-Dichloropropane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,3-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,3-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,4-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	1,4-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	2-Hexanone	0	U		10	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	2-Hexanone	0	U		10	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Acetone	0	U		50	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Acetone	0	U		50	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Benzene	180				ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Benzene	170				ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Bromoform	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Bromoform	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Bromomethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Bromomethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Carbon tetrachloride	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Carbon tetrachloride	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Chlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Chlorobenzene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Chloroethane	0	U		10	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Chloroethane	0	U		10	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Chloroform	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Chloroform	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Chloromethane	0	U		10	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Chloromethane	0	U		10	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Cumene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Cumene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Dibromochloromethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Dibromochloromethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Dichlorobromomethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Dichlorobromomethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Dichlorodifluoromethane	0	U		10	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Dichlorodifluoromethane	0	U		10	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Ethylbenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Ethylbenzene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	m & p-Xylenes	64				ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	m & p-Xylenes	57				ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methyl ethyl ketone	0	U		50	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methyl ethyl ketone	0	U		50	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methyl isobutenyl ketone	0	U		10	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methyl isobutenyl ketone	0	U		10	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methylene chloride	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Methylene chloride	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	o-Xylene	5.9				ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	o-Xylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Styrene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Styrene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Tetrachloroethylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Tetrachloroethylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Toluene	200				ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Toluene	270				ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Trichloroethylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Trichloroethylene	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Trichlorofluoromethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Trichlorofluoromethane	0	U		5	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49_8/10/15_DUP	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Vinyl chloride	0	U		2	ug/L
MW-49	MW-49_8/10/15_NM	Permanent	Abandoned	8/10/2015	2.5 - 12.5	Vinyl chloride	0	U		2	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,1,1-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,1,2-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,1-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,1-Dichloroethene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,2-Dibromoethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,2-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,2-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,2-Dichloropropane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,3-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	1,4-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	2-Hexanone	0	U		10	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Acetone	100				ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Benzene	170				ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Bromoform	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Bromomethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Carbon tetrachloride	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Chlorobenzene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Chloroethane	0	U		10	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Chloroform	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Chloromethane	0	U		10	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Cumene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Dibromochloromethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Dichlorobromomethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Dichlorodifluoromethane	0	U		10	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Ethylbenzene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	m & p-Xylenes	74				ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Methyl ethyl ketone	0	U		50	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Methyl isobutenyl ketone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Methylene chloride	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	o-Xylene	7.2				ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Styrene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Tetrachloroethylene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Toluene	120				ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Trichloroethylene	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Trichlorofluoromethane	0	U		5	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49_7/27/16_NM	Permanent	Abandoned	7/27/2016	2.5 - 12.5	Vinyl chloride	0	U		2	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,1,1-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,1,2-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,1-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,1-Dichloroethene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,2-Dibromoethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,2-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,2-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,2-Dichloropropane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,3-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	1,4-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	2-Hexanone	0	U		10	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Acetone	360				ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Benzene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Bromoform	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Bromomethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Carbon tetrachloride	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Chlorobenzene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Chloroethane	0	U		10	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Chloroform	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Chloromethane	0	U		10	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Cumene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Dibromochloromethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Dichlorobromomethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Dichlorodifluoromethane	0	U		10	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Ethylbenzene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	m & p-Xylenes	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Methyl ethyl ketone	0	U		50	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Methyl isobutenyl ketone	0	U		10	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Methylene chloride	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	o-Xylene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Styrene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Tetrachloroethylene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Toluene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Trichloroethylene	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Trichlorofluoromethane	0	U		5	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49_8/22/16_NM	Permanent	Abandoned	8/22/2016	2.5 - 12.5	Vinyl chloride	0	U		2	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,1,1-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,1,2-Trichloroethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,1-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,1-Dichloroethene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,2-Dibromoethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,2-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,2-Dichloroethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,2-Dichloropropane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,3-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	1,4-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	2-Hexanone	0	U		10	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Acetone	19	J		50	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Benzene	160			5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Bromoform	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Bromomethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Carbon tetrachloride	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Chlorobenzene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Chloroethane	0	U		10	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Chloroform	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Chloromethane	0	U		10	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Cumene	1.7	J		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Dibromochloromethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Dichlorobromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Dichlorodifluoromethane	0	U		10	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Ethylbenzene	3.2	J		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	m & p-Xylenes	11			5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Methyl ethyl ketone	0	U		50	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Methyl isobutenyl ketone	0	U		10	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Methylene chloride	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	o-Xylene	3.6	J		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Styrene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Tetrachloroethylene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Toluene	12			5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Trichloroethylene	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Trichlorofluoromethane	0	U		5	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49_12/15/16_NM	Permanent	Abandoned	12/15/2016	2.5 - 12.5	Vinyl chloride	0	U		2	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,1,1-Trichloroethane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,1,2-Trichloroethane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,1-Dichloroethane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,1-Dichloroethene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,2-Dibromoethane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,2-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,2-Dichloroethane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,2-Dichloropropane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,3-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	1,4-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	2-Hexanone	0	U		10	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Acetone	0	U		50	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Benzene	61			5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Bromoform	0	U	UJ	5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Bromomethane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Carbon tetrachloride	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Chlorobenzene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Chloroethane	0	U		10	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Chloroform	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Chloromethane	0	U		10	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Cumene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Dibromochloromethane	0	U	UJ	5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Dichlorodifluoromethane	0	U		10	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Ethylbenzene	3.1	J		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	m & p-Xylenes	33			5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Methyl ethyl ketone	0	U		50	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Methyl isobutenyl ketone	0	U		10	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Methylene chloride	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	o-Xylene	3.2	J		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Styrene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Tetrachloroethylene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Toluene	7			5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Trichloroethylene	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Trichlorofluoromethane	0	U		5	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49-032417	Permanent	Abandoned	3/24/2017	2.5 - 12.5	Vinyl chloride	0	U		2	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,1,1-Trichloroethane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,1,2-Trichloroethane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,1-Dichloroethane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,1-Dichloroethene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,2-Dibromoethane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,2-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,2-Dichloroethane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,2-Dichloropropane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,3-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	1,4-Dichlorobenzene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	2-Hexanone	0	U	UJ	10	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Acetone	29	J	J	50	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Benzene	3.3	J		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Bromoform	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Bromomethane	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Chlorobenzene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Chloroethane	0	U		10	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Chloroform	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Chloromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Cumene	1.1	J		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Dibromochloromethane	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Dichlorobromomethane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Dichlorodifluoromethane	0	U		10	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Ethylbenzene	1.4	J		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	m & p-Xylenes	4.5	J		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Methyl acetate	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Methyl ethyl ketone	0	U		50	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Methyl isobutenyl ketone	0	U		10	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Methylene chloride	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	o-Xylene	1.5	J		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Styrene	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Tetrachloroethylene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Toluene	0.59	J		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Trichloroethylene	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Trichlorofluoromethane	0	U		5	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49-061317	Permanent	Abandoned	6/13/2017	2.5 - 12.5	Vinyl chloride	0	U		2	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,1,1-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,1,2-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,1-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,1-Dichloroethene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,2-Dibromoethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,2-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,2-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,2-Dichloropropane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,3-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	1,4-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	2-Hexanone	0	U		5	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Acetone	16.3		J+	5	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Benzene	114		J+	1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Bromoform	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Bromomethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Carbon tetrachloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Chlorobenzene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Chloroethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Chloroform	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Chloromethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Cumene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Dibromochloromethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Dichlorobromomethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Dichlorodifluoromethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Ethylbenzene	1.2		J+	1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	m & p-Xylenes	5.8		J+	2	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Methyl ethyl ketone	0	U		5	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Methyl isobutenyl ketone	0	U		5	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Methylene Chloride	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	o-Xylene	1.7		J+	1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Styrene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Toluene	13.1		J+	1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Trichloroethylene	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Trichlorofluoromethane	0	U		1	ug/L
MW-49	MW-49-092817	Permanent	Abandoned	9/28/2017	2.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,1,1-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,1,2-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,1-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,1-Dichloroethene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,2-Dibromoethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,2-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,2-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,2-Dichloropropane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,3-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	1,4-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	2-Hexanone	0	U		5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Acetone	7.7			5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Acetone	9.6			5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Benzene	25.7			1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Benzene	45			1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Bromoform	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Bromomethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Carbon disulfide	0	U		5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Carbon tetrachloride	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Chlorobenzene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Chloroethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Chloroform	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Chloromethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Cumene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Cyclohexane	0	U		5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Dibromochloromethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Dichlorobromomethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Dichlorodifluoromethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Ethylbenzene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	m & p-Xylenes	4.3			2	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	m & p-Xylenes	7.7			2	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Methyl acetate	0	U		5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Methyl ethyl ketone	0	U		5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Methyl isobutenyl ketone	0	U		5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Methylcyclohexane	0	U		5	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Methylene Chloride	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	o-Xylene	1.2			1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	o-Xylene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Styrene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Toluene	5.1			1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Toluene	8.7			1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Trichloroethylene	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Trichlorofluoromethane	0	U		1	ug/L
MW-49	MW-49-120117	Permanent	Abandoned	12/1/2017	2.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,1,1-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,1,2-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,1-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,1-Dichloroethene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,2-Dibromoethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,2-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,2-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,2-Dichloropropane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,3-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	1,4-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	2-Hexanone	0	U		5	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Acetone	0	U		25	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Benzene	5			1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Bromodichloromethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Bromoform	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Bromomethane	0	U		2	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Carbon disulfide	0	U		10	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Carbon tetrachloride	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Chlorobenzene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Chloroethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Chloroform	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Chloromethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Cumene	0	U		10	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Cyclohexane	0	U		10	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Dibromochloromethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Dichlorodifluoromethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Ethylbenzene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	m & p-Xylenes	1.1			1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Methyl acetate	0	U		10	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Methyl ethyl ketone	0	U		5	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Methyl isobutenyl ketone	0	U		5	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Methylcyclohexane	0	U		10	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Methylene Chloride	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	o-Xylene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Styrene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Toluene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Trichloroethylene	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Trichlorofluoromethane	0	U		1	ug/L
MW-49	MW-49-022218	Permanent	Abandoned	2/22/2018	2.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,1,1-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,1,2-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,1-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,1-Dichloroethene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,2-Dibromoethane	0	U		2	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,2-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,2-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,2-Dichloropropane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,3-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	1,4-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	2-Hexanone	0	U		5	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Acetone	35		J	25	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Benzene	5		J	1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Bromoform	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Bromomethane	0	U		2	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Carbon disulfide	0	U		10	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Carbon tetrachloride	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Chlorobenzene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Chloroethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Chloroform	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Chloromethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Cumene	0	U		10	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Cyclohexane	0	U		10	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Dibromochloromethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Dichlorobromomethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Dichlorodifluoromethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Ethylbenzene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	m & p-Xylenes	1.7			1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Methyl acetate	0	U		10	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Methyl ethyl ketone	0	U		5	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Methyl isobutenyl ketone	0	U		5	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Methylcyclohexane	0	U		10	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Methylene Chloride	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	o-Xylene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Styrene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Toluene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Trichloroethylene	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Trichlorofluoromethane	0	U		1	ug/L
MW-49	MW-49-051018	Permanent	Abandoned	5/10/2018	2.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,1,1-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,1,2-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,1-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,1-Dichloroethene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,2-Dibromoethane	0	U		2	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,2-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,2-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,2-Dichloropropane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,3-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	1,4-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	2-Hexanone	0	U		5	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Acetone	32.6			25	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Benzene	2		J	1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Bromoform	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Bromomethane	0	U		2	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Carbon disulfide	0	U		10	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Carbon tetrachloride	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Chlorobenzene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Chloroethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Chloroform	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Chloromethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Cumene	0	U		10	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Cyclohexane	0	U		10	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Dibromochloromethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Dichlorobromomethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Dichlorodifluoromethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Ethylbenzene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	m & p-Xylenes	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Methyl acetate	0	U		10	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Methyl ethyl ketone	0	U		5	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Methyl isobutenyl ketone	0	U		5	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Methylcyclohexane	0	U		10	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Methylene Chloride	0	U	U	2.8	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	o-Xylene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Styrene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Toluene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Trichloroethylene	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Trichlorofluoromethane	0	U		1	ug/L
MW-49	MW-49-080218	Permanent	Abandoned	8/2/2018	2.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,1,1-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,1,2-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,1-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,1-Dichloroethene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,2-Dibromoethane	0	U		2	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,2-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,2-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,2-Dichloropropane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,3-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	1,4-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	2-Hexanone	0	U		5	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Acetone	25			25	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Benzene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Bromoform	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Bromomethane	0	U		2	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Carbon disulfide	0	U		10	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Carbon tetrachloride	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Chlorobenzene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Chloroethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Chloroform	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Chloromethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Cumene	0	U		10	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Cyclohexane	0	U		10	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Dibromochloromethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Dichlorobromomethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Dichlorodifluoromethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Ethylbenzene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	m & p-Xylenes	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Methyl acetate	0	U		10	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Methyl ethyl ketone	0	U		5	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Methyl isobutenyl ketone	0	U		5	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Methylcyclohexane	0	U		10	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Methylene Chloride	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	o-Xylene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Styrene	1.5			1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Toluene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Trichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Trichlorofluoromethane	0	U		1	ug/L
MW-49	MW-49-042619	Permanent	Abandoned	4/26/2019	2.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,1,1-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,1,2-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,1-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,1-Dichloroethene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,2-Dibromoethane	0	U		2	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,2-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,2-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,2-Dichloropropane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,3-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	1,4-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	2-Hexanone	0	U		5	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Acetone	0	U		25	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Benzene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Bromoform	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Bromomethane	4.6		J	2	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Carbon disulfide	0	U		10	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Carbon tetrachloride	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Chlorobenzene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Chloroethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Chloroform	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Chloromethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Cumene	0	U		10	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Cyclohexane	0	U		10	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Dibromochloromethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Dichlorobromomethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Dichlorodifluoromethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Ethylbenzene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	m & p-Xylenes	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Methyl acetate	0	U		10	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Methyl ethyl ketone	0	U		5	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Methyl isobutenyl ketone	0	U		5	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Methylcyclohexane	0	U		10	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Methylene Chloride	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	o-Xylene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Styrene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Toluene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Trichloroethylene	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Trichlorofluoromethane	0	U		1	ug/L
MW-49	MW-49-112119	Permanent	Abandoned	11/21/2019	2.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,1,1-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,1,2-Trichloroethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,1-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,1-Dichloroethene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,2-Dibromoethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,2-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,2-Dichloroethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,2-Dichloropropane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,3-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	1,4-Dichlorobenzene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	2-Hexanone	0	U		5	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Acetone	0	U		25	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Benzene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Bromoform	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Bromomethane	0	U		2	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Carbon disulfide	0	U		2	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Carbon tetrachloride	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Chlorobenzene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Chloroethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Chloroform	0	U		5	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Chloromethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Cumene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Cyclohexane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Dibromochloromethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Dichlorobromomethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Dichlorodifluoromethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Ethylbenzene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	m & p-Xylenes	0	U		2	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Methyl acetate	0	U		10	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Methyl ethyl ketone	0	U		5	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Methyl isobutenyl ketone	0	U		5	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Methylcyclohexane	0	U		10	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Methylene Chloride	0	U		5	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	o-Xylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Styrene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Tetrachloroethylene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Toluene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Trichloroethylene	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Trichlorofluoromethane	0	U		1	ug/L
MW-49	MW-49-042820	Permanent	Abandoned	4/28/2020	2.5 - 12.5	Vinyl chloride	0	U		1	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	2-Hexanone	0	U		200	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Acetone	0	U		500	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Benzene	0	U		10	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Carbon disulfide	0	U		500	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	cis-1,2-Dichloroethylene	12				ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Ethylbenzene	0	U		10	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	m & p-Xylenes	0	U		20	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Methyl ethyl ketone	0	U		200	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Methyl isobutenyl ketone	0	U		200	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	o-Xylene	0	U		10	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Toluene	16				ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_2/2/05_NM	Permanent	Abandoned	2/2/2005	6.38 - 11.38	Vinyl chloride	0	U		10	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	2-Hexanone	0	U		7	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Acetone	22				ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Benzene	0	U		3.5	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Carbon disulfide	0	U		4.8	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	cis-1,2-Dichloroethylene	120				ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Ethylbenzene	0	U		4.3	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	m & p-Xylenes	0	U		8.5	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Methyl ethyl ketone	0	U		12	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Methyl isobutenyl ketone	0	U		15	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	o-Xylene	0	U		3.9	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Toluene	13				ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		4.7	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_4/20/09_NM	Permanent	Abandoned	4/20/2009	6.38 - 11.38	Vinyl chloride	13				ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	2-Hexanone	0	U		0.7	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Acetone	7.7				ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Benzene	0	U		0.35	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Carbon disulfide	0.94	J			ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	cis-1,2-Dichloroethylene	18				ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Ethylbenzene	0	U		0.43	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	m & p-Xylenes	0	U		0.85	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Methyl ethyl ketone	0	U		1.2	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Methyl isobutenyl ketone	0	U		1.5	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	o-Xylene	0	U		0.39	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Toluene	1.4				ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		0.47	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_6/18/10_NM	Permanent	Abandoned	6/18/2010	6.38 - 11.38	Vinyl chloride	1.4				ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	2-Hexanone	0	U		6.9	ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Acetone	290	J			ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Benzene	0	U		2	ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Carbon disulfide	0	U		5.4	ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	cis-1,2-Dichloroethylene	230				ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	m & p-Xylenes	0	U		4.8	ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Methyl ethyl ketone	0	U		10	ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Methyl isobutenyl ketone	0	U		11	ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	o-Xylene	5.3	J			ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Toluene	13	J			ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/22/10_NM	Permanent	Abandoned	11/22/2010	6.38 - 11.38	Vinyl chloride	14	J			ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	2-Hexanone	0	U		5	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Acetone	320				ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Benzene	0	U		2.7	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Carbon disulfide	4	J			ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	cis-1,2-Dichloroethylene	140				ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Methyl ethyl ketone	0	U		3.8	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	o-Xylene	0	U		2.5	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Toluene	9.1	J			ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_3/9/11_NM	Permanent	Abandoned	3/9/2011	6.38 - 11.38	Vinyl chloride	11				ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	2-Hexanone	0	U		5	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Acetone	250				ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Benzene	0	U		2.7	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Carbon disulfide	0	U		2.4	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	cis-1,2-Dichloroethylene	380				ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Methyl ethyl ketone	0	U		3.8	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	o-Xylene	0	U		2.5	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Toluene	14				ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/26/11_NM	Permanent	Abandoned	5/26/2011	6.38 - 11.38	Vinyl chloride	0	U		3.3	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Acetone	210	J			ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Acetone	240				ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	cis-1,2-Dichloroethylene	420				ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	cis-1,2-Dichloroethylene	390				ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Toluene	18	J			ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Toluene	19				ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/22/11_DUP	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Vinyl chloride	19	J			ug/L
MW-5	MW-5_11/22/11_NM	Permanent	Abandoned	11/22/2011	6.38 - 11.38	Vinyl chloride	21				ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Acetone	140				ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Acetone	120				ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	cis-1,2-Dichloroethylene	810				ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	cis-1,2-Dichloroethylene	720				ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Toluene	20				ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Toluene	21				ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/30/12_DUP	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Vinyl chloride	30				ug/L
MW-5	MW-5_5/30/12_NM	Permanent	Abandoned	5/30/2012	6.38 - 11.38	Vinyl chloride	33				ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Acetone	53				ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Acetone	63				ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	cis-1,2-Dichloroethylene	790				ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	cis-1,2-Dichloroethylene	770				ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Methyl acetate	10	J			ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Toluene	14				ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Toluene	13				ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/20/12_DUP	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Vinyl chloride	36				ug/L
MW-5	MW-5_11/20/12_NM	Permanent	Abandoned	11/20/2012	6.38 - 11.38	Vinyl chloride	35				ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Acetone	85				ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	cis-1,2-Dichloroethylene	660				ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Toluene	15				ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/22/13_NM	Permanent	Abandoned	5/22/2013	6.38 - 11.38	Vinyl chloride	58				ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Acetone	91				ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	cis-1,2-Dichloroethylene	830				ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Toluene	15				ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/18/13_NM	Permanent	Abandoned	11/18/2013	6.38 - 11.38	Vinyl chloride	44				ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Acetone	51				ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	cis-1,2-Dichloroethylene	670				ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Toluene	14				ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/21/14_NM	Permanent	Abandoned	5/21/2014	6.38 - 11.38	Vinyl chloride	38				ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Acetone	100				ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	cis-1,2-Dichloroethylene	540				ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Toluene	13				ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/12/14_NM	Permanent	Abandoned	11/12/2014	6.38 - 11.38	Vinyl chloride	45				ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Acetone	62				ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	cis-1,2-Dichloroethylene	810				ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Toluene	13				ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_5/28/15_NM	Permanent	Abandoned	5/28/2015	6.38 - 11.38	Vinyl chloride	36				ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	2-Hexanone	0	U		10	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Acetone	89				ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Acetone	79				ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Benzene	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Carbon disulfide	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	cis-1,2-Dichloroethylene	970				ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	cis-1,2-Dichloroethylene	950				ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Cumene	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Ethylbenzene	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	m & p-Xylenes	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Methyl acetate	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Methyl ethyl ketone	0	U		50	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Methyl isobutenyl ketone	0	U		10	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	o-Xylene	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Tetrachloroethylene	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Toluene	16				ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Toluene	16				ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Trichloroethylene	0	U		5	ug/L
MW-5	MW-5_11/10/15_DUP	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Vinyl chloride	37				ug/L
MW-5	MW-5_11/10/15_NM	Permanent	Abandoned	11/10/2015	6.38 - 11.38	Vinyl chloride	34				ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,1,1-Trichloroethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,1,2-Trichloroethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,1-Dichloroethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,1-Dichloroethene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,2-Dibromoethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,2-Dichlorobenzene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,2-Dichloroethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,2-Dichloropropane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,3-Dichlorobenzene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	1,4-Dichlorobenzene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	2-Hexanone	0	U		10	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Acetone	0	U		50	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Benzene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Bromoform	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Bromomethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Carbon disulfide	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Carbon tetrachloride	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Chlorobenzene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Chloroethane	0	U		10	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Chloroform	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Chloromethane	0	U		10	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Cumene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Cyclohexane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Dibromochloromethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Dichlorobromomethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Dichlorodifluoromethane	0	U		10	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Ethylbenzene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	m & p-Xylenes	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Methyl acetate	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Methyl ethyl ketone	0	U		50	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Methyl isobutenyl ketone	0	U		10	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Methylcyclohexane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Methylene chloride	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	o-Xylene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Styrene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Tetrachloroethylene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Toluene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Trichloroethylene	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Trichlorofluoromethane	0	U		5	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Trichlorotrifluoroethane	0	U		10	ug/L
MW-50	MW-50_8/10/15_NM	Permanent	Abandoned	8/10/2015	5.28 - 15.28	Vinyl chloride	0	U		2	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,1,1-Trichloroethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,1,2,2-Tetrachloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,1,2-Trichloroethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,1-Dichloroethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,1-Dichloroethene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,2-Dibromoethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,2-Dichlorobenzene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,2-Dichloroethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,2-Dichloropropane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,3-Dichlorobenzene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	1,4-Dichlorobenzene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	2-Hexanone	0	U		10	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Acetone	0	U		50	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Benzene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Bromoform	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Bromomethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Carbon disulfide	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Carbon tetrachloride	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Chlorobenzene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Chloroethane	0	U		10	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Chloroform	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Chloromethane	0	U		10	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Cumene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Cyclohexane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Dibromochloromethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Dichlorobromomethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Dichlorodifluoromethane	0	U		10	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Ethylbenzene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	m & p-Xylenes	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Methyl acetate	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Methyl ethyl ketone	0	U		50	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Methyl isobutenyl ketone	0	U		10	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Methylcyclohexane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Methylene chloride	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	o-Xylene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Styrene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Tetrachloroethylene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Toluene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Trichloroethylene	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Trichlorofluoromethane	0	U		5	ug/L
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Trichlorotrifluoroethane	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-50	MW-50_12/15/16_NM	Permanent	Abandoned	12/15/2016	5.28 - 15.28	Vinyl chloride	0	U		2	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,1,1-Trichloroethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,1,2-Trichloroethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,1-Dichloroethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,1-Dichloroethene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,2-Dibromoethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,2-Dichlorobenzene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,2-Dichloroethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,2-Dichloropropane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,3-Dichlorobenzene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	1,4-Dichlorobenzene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	2-Hexanone	0	U		5	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Acetone	0	U		5	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Benzene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Bromoform	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Bromomethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Carbon disulfide	0	U		5	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Carbon tetrachloride	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Chlorobenzene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Chloroethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Chloroform	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Chloromethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Cumene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Cyclohexane	0	U		5	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Dibromochloromethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Dichlorobromomethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Dichlorodifluoromethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Ethylbenzene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	m & p-Xylenes	0	U		2	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Methyl acetate	0	U		5	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Methyl ethyl ketone	0	U		5	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Methyl isobutenyl ketone	0	U		5	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Methylcyclohexane	0	U		5	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Methylene Chloride	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	o-Xylene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Styrene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Tetrachloroethylene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Toluene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Trichloroethylene	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Trichlorofluoromethane	0	U		1	ug/L
MW-50	MW-50-113017	Permanent	Abandoned	11/30/2017	5.28 - 15.28	Vinyl chloride	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,1,1-Trichloroethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,1,2-Trichloroethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,1-Dichloroethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,1-Dichloroethene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,2-Dibromoethane	0	U		2	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,2-Dichlorobenzene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,2-Dichloroethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,2-Dichloropropane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,3-Dichlorobenzene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	1,4-Dichlorobenzene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	2-Hexanone	0	U		5	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Acetone	0	U		25	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Benzene	9		J	1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Bromoform	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Bromomethane	0	U		2	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Carbon disulfide	0	U		10	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Carbon tetrachloride	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Chlorobenzene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Chloroethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Chloroform	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Chloromethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Cumene	0	U		10	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Cyclohexane	0	U		10	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Dibromochloromethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Dichlorobromomethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Dichlorodifluoromethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Ethylbenzene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	m & p-Xylenes	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Methyl acetate	0	U		10	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Methyl ethyl ketone	0	U		5	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Methyl isobutenyl ketone	0	U		5	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Methylcyclohexane	0	U		10	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Methylene Chloride	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	o-Xylene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Styrene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Tetrachloroethylene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Toluene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Trichloroethylene	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Trichlorofluoromethane	0	U		1	ug/L
MW-50	MW-50-051018	Permanent	Abandoned	5/10/2018	5.28 - 15.28	Vinyl chloride	0	U		1	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Acetone	0	U		50	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Benzene	100				ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Cumene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	m & p-Xylenes	11				ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Styrene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Toluene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51_8/10/15_NM	Permanent	Abandoned	8/10/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	2-Hexanone	0	U		10	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Acetone	0	U		50	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Benzene	26				ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Bromoform	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Bromomethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Chloroethane	0	U		10	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Chloroform	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Chloromethane	0	U		10	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Cumene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Cyclohexane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methyl acetate	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Methylene chloride	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	o-Xylene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Styrene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Toluene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51_7/27/16_NM	Permanent	Abandoned	7/27/2016	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	2-Hexanone	0	U		10	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Acetone	0	U		50	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Benzene	51				ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Bromoform	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Bromomethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Chloroethane	0	U		10	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Chloroform	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Chloromethane	0	U		10	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Cumene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Cyclohexane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	m & p-Xylenes	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Methyl acetate	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Methylene chloride	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	o-Xylene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Styrene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Toluene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51_8/23/16_NM	Permanent	Abandoned	8/23/2016	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	2-Hexanone	0	U		10	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Acetone	23	J		50	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Benzene	31			5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Bromoform	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Bromomethane	0	U	UJ	5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Cumene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Dichlorobromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	m & p-Xylenes	1.9	J		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	o-Xylene	0.68	J		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Styrene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Toluene	0.94	J		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Trichlorotrifluoroethane	0	U	UJ	10	ug/L
MW-51	MW-51-032417	Permanent	Abandoned	3/24/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,1,1-Trichloroethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,1,2-Trichloroethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,1-Dichloroethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,1-Dichloroethene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,2-Dibromoethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,2-Dichlorobenzene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,2-Dichloroethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,2-Dichloropropane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,3-Dichlorobenzene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	1,4-Dichlorobenzene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	2-Hexanone	0	U		50	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Acetone	223			50	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Benzene	958			10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Bromoform	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Bromomethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Carbon disulfide	0	U		50	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Carbon tetrachloride	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Chlorobenzene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Chloroform	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Cumene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Cyclohexane	0	U		50	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Dibromochloromethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Dichlorobromomethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Ethylbenzene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	m & p-Xylenes	70.4			20	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Methyl acetate	0	U		50	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Methyl isobutenyl ketone	0	U		50	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Methylcyclohexane	0	U		50	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Methylene Chloride	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	o-Xylene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Styrene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Tetrachloroethylene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Toluene	15.4			10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Trichloroethylene	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Trichlorofluoromethane	0	U		10	ug/L
MW-51	MW-51-092817	Permanent	Abandoned	9/28/2017	2 - 12	Vinyl chloride	0	U		10	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	2-Hexanone	0	U		25	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Acetone	66.1			25	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Benzene	394			5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Bromoform	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Bromomethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Carbon disulfide	0	U		25	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Chloroethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Chloroform	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Chloromethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Cumene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Cyclohexane	0	U		25	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Dichlorodifluoromethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	m & p-Xylenes	38			10	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Methyl acetate	0	U		25	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Methyl ethyl ketone	0	U		25	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Methyl isobutenyl ketone	0	U		25	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Methylcyclohexane	0	U		25	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	o-Xylene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Styrene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Toluene	7.6			5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-51	MW-51-113017	Permanent	Abandoned	11/30/2017	2 - 12	Vinyl chloride	0	U		5	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Acetone	0	U		25	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Benzene	113			10	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Bromodichloromethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Carbon disulfide	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Cumene	0	U		10	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Ethylbenzene	1.4			1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Ethylbenzene	1.6			1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	m & p-Xylenes	17.5			1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	m & p-Xylenes	18.9			1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	o-Xylene	2.3			1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	o-Xylene	2.7			1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Styrene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Toluene	5.9			1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Toluene	5.4			1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-51	MW-51-022218	Permanent	Abandoned	2/22/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Acetone	40.5		J	25	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Benzene	904		J	10	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Chlorobenzene	5.8		J	1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Cumene	0	U		10	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Ethylbenzene	5.2		J	1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	m & p-Xylenes	84.9		J	1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	o-Xylene	9.1		J	1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Styrene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Toluene	17.9		J	1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-51	MW-51-051018	Permanent	Abandoned	5/10/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Acetone	0	U		25	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Benzene	6.9		J	1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Cumene	0	U		10	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Methylene Chloride	3.3			1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Styrene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Toluene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-51	MW-51-080218	Permanent	Abandoned	8/2/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Acetone	46.5		J	25	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Benzene	367		J	10	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chlorobenzene	2.6			1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Cumene	0	U		10	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Ethylbenzene	4			1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	m & p-Xylenes	74.2		J	1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	o-Xylene	8.2			1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Styrene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Toluene	7.7		J	1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-51	MW-51-101818	Permanent	Abandoned	10/18/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	2-Hexanone	10.9			5	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Acetone	60.4			25	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Benzene	124			1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Cumene	0	U		10	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Ethylbenzene	2			1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	m & p-Xylenes	37.5			1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	o-Xylene	3.8			1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Styrene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Toluene	3.6			1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-51	MW-51-042519	Permanent	Abandoned	4/25/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	2-Hexanone	5			5	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Acetone	0	U		25	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Benzene	199			10	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Chlorobenzene	2.7			1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Cumene	0	U		10	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Ethylbenzene	3.8			1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	m & p-Xylenes	76.4			1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	o-Xylene	6.7			1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Styrene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Toluene	5.3			1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-112119	Permanent	Abandoned	11/21/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,1,1-Trichloroethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,1,2-Trichloroethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,1-Dichloroethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,1-Dichloroethene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,2-Dibromo-3-chloropropane	0	U		50	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,2-Dibromoethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,2-Dichlorobenzene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,2-Dichloroethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,2-Dichloropropane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,3-Dichlorobenzene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	1,4-Dichlorobenzene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	2-Hexanone	0	U		50	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Acetone	0	U		250	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Benzene	169		J	10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Bromoform	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Bromomethane	0	U		20	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Carbon disulfide	0	U		20	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Carbon tetrachloride	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Chlorobenzene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Chloroethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Chloroform	0	U		50	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Chloromethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Cumene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Cyclohexane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Dibromochloromethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Dichlorobromomethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Ethylbenzene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	m & p-Xylenes	50		J	20	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Methyl acetate	0	U		100	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Methyl isobutenyl ketone	0	U		50	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Methylcyclohexane	0	U		100	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Methylene Chloride	0	U		50	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	o-Xylene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Styrene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Tetrachloroethylene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Toluene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	trans-1,2-Dichloroethylene	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Trichloroethylene	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Trichlorofluoromethane	0	U		10	ug/L
MW-51	MW-51-042820	Permanent	Abandoned	4/28/2020	2 - 12	Vinyl chloride	0	U		10	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,1,1-Trichloroethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,1,2-Trichloroethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,1-Dichloroethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,1-Dichloroethene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,2,4-Trichlorobenzene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,2-Dibromoethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,2-Dichlorobenzene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,2-Dichloroethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,2-Dichloropropane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,3-Dichlorobenzene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	1,4-Dichlorobenzene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	2-Hexanone	0			5	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Acetone	10.6	J	J	25	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Benzene	89.8		J	1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Bromoform	0		UJ	1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Bromomethane	0			2	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Carbon tetrachloride	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Chlorobenzene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Chloroethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Chloroform	0			5	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Chloromethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	cis-1,2-Dichloroethylene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	cis-1,3-Dichloropropylene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Cumene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Cyclohexane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Dibromochloromethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Dichlorobromomethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Dichlorodifluoromethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Ethylbenzene	1.3		J	1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Methyl acetate	0			10	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Methyl ethyl ketone	0			5	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Methyl isobutenyl ketone	17.3		J	5	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Methylcyclohexane	0			10	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Methylene Chloride	0			5	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Styrene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Tetrachloroethylene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Toluene	1.7		J	1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	trans-1,2-Dichloroethylene	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	trans-1,3-Dichloropropylene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Trichloroethylene	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Trichlorofluoromethane	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Vinyl acetate	0			2	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Vinyl chloride	0			1	ug/L
MW-51	MW-51-102720	Permanent	Abandoned	10/27/2020	2 - 12	Xylene (Total)	21.6		J	1	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	2-Hexanone	0	U		25	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	2-Hexanone	0	U		25	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Acetone	65.7	J		125	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Acetone	59.8	J		125	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Benzene	462		J	5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Benzene	481		J	5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Bromoform	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Bromoform	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Bromomethane	0	U		10	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Bromomethane	0	U		10	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Chloroethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Chloroethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Chloroform	0	U		25	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Chloroform	0	U		25	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Chloromethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Chloromethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Cumene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Cumene	3	J		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Cyclohexane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Cyclohexane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Dibromomethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Dibromomethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Dichlorodifluoromethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Dichlorodifluoromethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Ethylbenzene	5.1		J	5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Ethylbenzene	5.8		J	5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Methyl acetate	0	U		50	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Methyl acetate	0	U		50	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Methyl ethyl ketone	0	U		25	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Methyl ethyl ketone	0	U		25	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Methyl isobutenyl ketone	0	U		25	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Methyl isobutenyl ketone	164		J	25	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Methylcyclohexane	0	U		50	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Methylcyclohexane	0	U		50	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Methylene Chloride	0	U		25	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Methylene Chloride	0	U		25	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Styrene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Styrene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Toluene	5.9		J	5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Toluene	6.4		J	5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Vinyl acetate	0	U		10	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Vinyl acetate	0	U		10	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Vinyl chloride	0	U		5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Vinyl chloride	0	U		5	ug/L
MW-51	MW-51-040721	Permanent	Abandoned	4/7/2021	2 - 12	Xylene (Total)	81.3		J	5	ug/L
MW-51	MW-51-040721_DUP	Permanent	Abandoned	4/7/2021	2 - 12	Xylene (Total)	89.9		J	5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Acetone	0	U		50	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Benzene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Cumene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Styrene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Toluene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-51R	MW-51R_2/24/15_NM	Permanent	Active	2/24/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,1,1-Trichloroethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,1,2-Trichloroethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,1-Dichloroethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,1-Dichloroethene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,2-Dibromoethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,2-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,2-Dichloroethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,2-Dichloropropane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,3-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	1,4-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	2-Hexanone	0	U		10	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Acetone	0	U		50	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Benzene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Bromoform	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Bromomethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Carbon disulfide	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Carbon tetrachloride	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Chlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Chloroethane	0	U		10	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Chloroform	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Chloromethane	0	U		10	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Cumene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Cyclohexane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Dibromochloromethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Dichlorobromomethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Dichlorodifluoromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Ethylbenzene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	m & p-Xylenes	7.8				ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Methyl acetate	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Methyl ethyl ketone	0	U		50	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Methyl isobutenyl ketone	0	U		10	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Methylcyclohexane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Methylene chloride	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	o-Xylene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Styrene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Tetrachloroethylene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Toluene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Trichloroethylene	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Trichlorofluoromethane	0	U		5	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Trichlorotrifluoroethane	0	U		10	ug/L
MW-52	MW-52_8/10/15_NM	Permanent	Active	8/10/2015	5.15 - 15.15	Vinyl chloride	0	U		2	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,1,1-Trichloroethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,1,2-Trichloroethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,1-Dichloroethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,1-Dichloroethene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,2-Dibromoethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,2-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,2-Dichloroethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,2-Dichloropropane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,3-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	1,4-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	2-Hexanone	0	U		10	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Acetone	0	U		50	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Benzene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Bromoform	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Bromomethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Carbon disulfide	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Carbon tetrachloride	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Chlorobenzene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Chloroethane	0	U		10	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Chloroform	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Chloromethane	0	U		10	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Cumene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Cyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Dibromochloromethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Dichlorobromomethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Dichlorodifluoromethane	0	U		10	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Ethylbenzene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	m & p-Xylenes	6.6				ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Methyl acetate	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Methyl ethyl ketone	0	U		50	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Methyl isobutenyl ketone	0	U		10	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Methylcyclohexane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Methylene chloride	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	o-Xylene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Styrene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Tetrachloroethylene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Toluene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Trichloroethylene	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Trichlorofluoromethane	0	U		5	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Trichlorotrifluoroethane	0	U		10	ug/L
MW-52	MW-52_8/24/15_NM	Permanent	Active	8/24/2015	5.15 - 15.15	Vinyl chloride	0	U		2	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,1,1-Trichloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,1,1-Trichloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,1,2-Trichloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,1,2-Trichloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,1-Dichloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,1-Dichloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,1-Dichloroethene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,1-Dichloroethene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dibromoethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dibromoethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dichloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dichloroethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dichloropropane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,2-Dichloropropane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,3-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,3-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	1,4-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	1,4-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	2-Hexanone	0	U		10	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	2-Hexanone	0	U		10	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Acetone	20	J		50	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Acetone	22	J		50	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Benzene	2.1	J		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Benzene	2	J		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Bromoform	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Bromoform	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Bromomethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Bromomethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Carbon disulfide	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Carbon disulfide	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Carbon tetrachloride	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Carbon tetrachloride	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Chlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Chlorobenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Chloroethane	0	U		10	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Chloroethane	0	U		10	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Chloroform	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Chloroform	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Chloromethane	0	U		10	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Chloromethane	0	U		10	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Cumene	3.3	J		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Cumene	2.4	J		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Cyclohexane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Cyclohexane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Dibromochloromethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Dibromochloromethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Dichlorobromomethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Dichlorobromomethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Dichlorodifluoromethane	0	U		10	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Dichlorodifluoromethane	0	U		10	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Ethylbenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Ethylbenzene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	m & p-Xylenes	13			5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	m & p-Xylenes	14			5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Methyl acetate	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Methyl acetate	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Methyl ethyl ketone	0	U		50	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Methyl ethyl ketone	0	U		50	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Methyl isobutenyl ketone	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Methyl isobutenyl ketone	0	U		10	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Methylcyclohexane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Methylcyclohexane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Methylene chloride	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Methylene chloride	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	o-Xylene	2.2	J		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	o-Xylene	2.3	J		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Styrene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Styrene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Tetrachloroethylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Tetrachloroethylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Toluene	4.8	J		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Toluene	4.3	J		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Trichloroethylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Trichloroethylene	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Trichlorofluoromethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Trichlorofluoromethane	0	U		5	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Trichlorotrifluoroethane	0	U		10	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Trichlorotrifluoroethane	0	U		10	ug/L
MW-52	MW-52_12/15/16_DUP	Permanent	Active	12/15/2016	5.15 - 15.15	Vinyl chloride	0	U		2	ug/L
MW-52	MW-52_12/15/16_NM	Permanent	Active	12/15/2016	5.15 - 15.15	Vinyl chloride	0	U		2	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,1,1-Trichloroethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,1,2-Trichloroethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,1-Dichloroethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,1-Dichloroethene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,2-Dibromoethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,2-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,2-Dichloroethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,2-Dichloropropane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,3-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	1,4-Dichlorobenzene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	2-Hexanone	0	U		10	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Acetone	29	J		50	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Benzene	1.8	J		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Bromoform	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Bromomethane	0	U	UJ	5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Carbon disulfide	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Carbon tetrachloride	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Chlorobenzene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Chloroethane	0	U		10	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Chloroform	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Chloromethane	0	U		10	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Cumene	1.6	J		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Cyclohexane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Dibromochloromethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Dichlorobromomethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Dichlorodifluoromethane	0	U		10	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Ethylbenzene	0.53	J		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	m & p-Xylenes	11			5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Methyl acetate	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Methyl ethyl ketone	0	U		50	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Methyl isobutenyl ketone	0	U		10	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Methylcyclohexane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Methylene chloride	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	o-Xylene	1.5	J		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Styrene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Tetrachloroethylene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Toluene	2.4	J		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Trichloroethylene	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Trichlorofluoromethane	0	U		5	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Trichlorotrifluoroethane	0	U	UJ	10	ug/L
MW-52	MW-52-032417	Permanent	Active	3/24/2017	5.15 - 15.15	Vinyl chloride	0	U		2	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,1,1-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,1,2-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,1-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,1-Dichloroethene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,2-Dibromoethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,2-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,2-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,2-Dichloropropane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,3-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	1,4-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	2-Hexanone	0	U		5	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Acetone	43.8			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Benzene	3.9			1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Bromoform	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Bromomethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Carbon disulfide	0	U		5	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Carbon tetrachloride	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Chlorobenzene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Chloroethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Chloroform	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Chloromethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Cumene	4.4			1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Cyclohexane	0	U		5	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Dibromochloromethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Dichlorobromomethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Dichlorodifluoromethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Ethylbenzene	1.9			1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	m & p-Xylenes	14.3			2	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Methyl acetate	0	U		5	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Methyl ethyl ketone	0	U		5	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Methyl isobutanyl ketone	0	U		5	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Methylcyclohexane	0	U		5	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Methylene Chloride	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	o-Xylene	2.9			1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Styrene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Tetrachloroethylene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Toluene	23.6			1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Trichloroethylene	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Trichlorofluoromethane	0	U		1	ug/L
MW-52	MW-52-092817	Permanent	Active	9/28/2017	5.15 - 15.15	Vinyl chloride	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,1,1-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,1,2-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,1-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,1-Dichloroethene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,2-Dibromoethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,2-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,2-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,2-Dichloropropane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,3-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	1,4-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	2-Hexanone	0	U		5	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Acetone	17.7			5	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Benzene	3.5			1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Bromoform	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Bromomethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Carbon disulfide	0	U		5	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Carbon tetrachloride	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Chlorobenzene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Chloroethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Chloroform	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Chloromethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Cumene	4.6			1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Cyclohexane	0	U		5	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Dibromochloromethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Dichlorobromomethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Dichlorodifluoromethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Ethylbenzene	2			1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	m & p-Xylenes	16.5			2	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Methyl acetate	0	U		5	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Methyl ethyl ketone	0	U		5	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Methyl isobutenyl ketone	0	U		5	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Methylcyclohexane	0	U		5	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Methylene Chloride	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	o-Xylene	2.8			1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Styrene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Tetrachloroethylene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Toluene	22.6			1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Trichloroethylene	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Trichlorofluoromethane	0	U		1	ug/L
MW-52	MW-52-113017	Permanent	Active	11/30/2017	5.15 - 15.15	Vinyl chloride	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,1,1-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,1,2-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,1-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,1-Dichloroethene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,2-Dibromoethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,2-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,2-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,2-Dichloropropane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,3-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	1,4-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	2-Hexanone	0	U		5	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Acetone	0	U		25	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Benzene	2.9			1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Bromodichloromethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Bromoform	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Bromomethane	0	U		2	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Carbon disulfide	0	U		10	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Carbon tetrachloride	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Chlorobenzene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Chloroethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Chloroform	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Chloromethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Cumene	0	U		10	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Cyclohexane	0	U		10	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Dibromochloromethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Dichlorodifluoromethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Ethylbenzene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	m & p-Xylenes	12			1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Methyl acetate	0	U		10	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Methyl ethyl ketone	0	U		5	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Methyl isobutenyl ketone	7.6			5	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Methylcyclohexane	0	U		10	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Methylene Chloride	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	o-Xylene	1.9			1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Styrene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Tetrachloroethylene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Toluene	9.2			1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Trichloroethylene	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Trichlorofluoromethane	0	U		1	ug/L
MW-52	MW-52-022218	Permanent	Active	2/22/2018	5.15 - 15.15	Vinyl chloride	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,1,1-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,1,2-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,1-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,1-Dichloroethene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,2-Dibromoethane	0	U		2	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,2-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,2-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,2-Dichloropropane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,3-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	1,4-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	2-Hexanone	0	U		5	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Acetone	0	U		25	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Benzene	3.9		J	1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Bromoform	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Bromomethane	0	U		2	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Carbon disulfide	0	U		10	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Carbon tetrachloride	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Chlorobenzene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Chloroethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Chloroform	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Chloromethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Cumene	0	U		10	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Cyclohexane	0	U		10	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Dibromochloromethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Dichlorobromomethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Dichlorodifluoromethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Ethylbenzene	2.2			1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	m & p-Xylenes	19.2			1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Methyl acetate	0	U		10	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Methyl ethyl ketone	0	U		5	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Methyl isobutenyl ketone	0	U		5	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Methylcyclohexane	0	U		10	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Methylene Chloride	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	o-Xylene	3			1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Styrene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Tetrachloroethylene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Toluene	19.7			1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Trichloroethylene	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Trichlorofluoromethane	0	U		1	ug/L
MW-52	MW-52-051018	Permanent	Active	5/10/2018	5.15 - 15.15	Vinyl chloride	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,1,1-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,1,2-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,1-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,1-Dichloroethene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,2-Dibromoethane	0	U		2	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,2-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,2-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,2-Dichloropropane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,3-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	1,4-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	2-Hexanone	0	U		5	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Acetone	38.2			25	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Benzene	1.6		J	1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Bromoform	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Bromomethane	0	U		2	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Carbon disulfide	0	U		10	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Carbon tetrachloride	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Chlorobenzene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Chloroethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Chloroform	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Chloromethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Cumene	0	U		10	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Cyclohexane	0	U		10	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Dibromochloromethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Dichlorobromomethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Dichlorodifluoromethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Ethylbenzene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	m & p-Xylenes	8.9			1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Methyl acetate	0	U		10	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Methyl ethyl ketone	0	U		5	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Methyl isobutenyl ketone	0	U		5	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Methylcyclohexane	0	U		10	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Methylene Chloride	3			1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	o-Xylene	1.4			1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Styrene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Tetrachloroethylene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Toluene	7.9		J	1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Trichloroethylene	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Trichlorofluoromethane	0	U		1	ug/L
MW-52	MW-52-080218	Permanent	Active	8/2/2018	5.15 - 15.15	Vinyl chloride	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,1,1-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,1,2-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,1-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,1-Dichloroethene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,2-Dibromoethane	0	U		2	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,2-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,2-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,2-Dichloropropane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,3-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	1,4-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	2-Hexanone	0	U		5	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Acetone	54.6			25	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Benzene	2.2			1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Bromoform	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Bromomethane	0	U		2	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Carbon disulfide	0	U		10	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Carbon tetrachloride	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Chlorobenzene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Chloroethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Chloroform	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Chloromethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Cumene	0	U		10	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Cyclohexane	0	U		10	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Dibromochloromethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Dichlorobromomethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Dichlorodifluoromethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Ethylbenzene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	m & p-Xylenes	7.3			1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Methyl acetate	0	U		10	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Methyl ethyl ketone	0	U		5	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Methyl isobutenyl ketone	0	U		5	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Methylcyclohexane	0	U		10	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Methylene Chloride	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	o-Xylene	1.1			1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Styrene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Tetrachloroethylene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Toluene	6			1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Trichloroethylene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Trichlorofluoromethane	0	U		1	ug/L
MW-52	MW-52-042519	Permanent	Active	4/25/2019	5.15 - 15.15	Vinyl chloride	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,1,1-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,1,2-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,1-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,1-Dichloroethene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,2-Dibromoethane	0	U		2	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,2-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,2-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,2-Dichloropropane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,3-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	1,4-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	2-Hexanone	0	U		5	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Acetone	0	U		25	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Benzene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Bromoform	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Bromomethane	2.6			2	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Carbon disulfide	0	U		10	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Carbon tetrachloride	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Chlorobenzene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Chloroethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Chloroform	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Chloromethane	1			1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Cumene	0	U		10	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Cyclohexane	0	U		10	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Dibromochloromethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Dichlorobromomethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Dichlorodifluoromethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Ethylbenzene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	m & p-Xylenes	3.5			1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Methyl acetate	0	U		10	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Methyl ethyl ketone	0	U		5	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Methyl isobutenyl ketone	0	U		5	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Methylcyclohexane	0	U		10	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Methylene Chloride	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	o-Xylene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Styrene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Tetrachloroethylene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Toluene	1.5			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Trichloroethylene	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Trichlorofluoromethane	0	U		1	ug/L
MW-52	MW-52-112119	Permanent	Active	11/21/2019	5.15 - 15.15	Vinyl chloride	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,1,1-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,1,2-Trichloroethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,1-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,1-Dichloroethene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,2-Dibromoethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,2-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,2-Dichloroethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,2-Dichloropropane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,3-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	1,4-Dichlorobenzene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	2-Hexanone	0	U		5	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Acetone	0	U		25	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Benzene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Bromoform	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Bromomethane	0	U		2	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Carbon disulfide	0	U		2	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Carbon tetrachloride	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Chlorobenzene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Chloroethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Chloroform	0	U		5	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Chloromethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Cumene	1.8			1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Cyclohexane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Dibromochloromethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Dichlorobromomethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Dichlorodifluoromethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Ethylbenzene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	m & p-Xylenes	2.7			2	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Methyl acetate	0	U		10	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Methyl ethyl ketone	0	U		5	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Methyl isobutenyl ketone	0	U		5	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Methylcyclohexane	0	U		10	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Methylene Chloride	0	U		5	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	o-Xylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Styrene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Tetrachloroethylene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Toluene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Trichloroethylene	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Trichlorofluoromethane	0	U		1	ug/L
MW-52	MW-52-042820	Permanent	Active	4/28/2020	5.15 - 15.15	Vinyl chloride	0	U		1	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Acetone	55				ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Benzene	17				ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Cumene	5.8				ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Ethylbenzene	9.6				ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	m & p-Xylenes	210				ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Methylene chloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	o-Xylene	14				ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Styrene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Toluene	26				ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-53	MW-53_8/10/15_NM	Permanent	Active	8/10/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Acetone	0	U		50	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Benzene	6.5				ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Cumene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	m & p-Xylenes	85				ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	o-Xylene	7.8				ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Styrene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Toluene	12				ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-53	MW-53_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	2-Hexanone	0	U		10	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Acetone	44	J		50	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Benzene	0.47	J		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Bromoform	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Bromomethane	0	U	UJ	5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Cumene	1.4	J		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Ethylbenzene	0.68	J		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	m & p-Xylenes	8.8			5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	o-Xylene	2.3	J		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Styrene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Toluene	1.6	J		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Trichlorotrifluoroethane	0	U	UJ	10	ug/L
MW-53	MW-53-032417	Permanent	Active	3/24/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Acetone	16.9			5	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Benzene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Cumene	3.5			1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Cyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Ethylbenzene	1.4			1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	m & p-Xylenes	23.8			2	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	o-Xylene	4.9			1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Styrene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Toluene	2.9			1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-53	MW-53-092817	Permanent	Active	9/28/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Acetone	0	U		5	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Benzene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Cumene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	m & p-Xylenes	3.7			2	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	o-Xylene	1.3			1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Styrene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Toluene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-53	MW-53-113017	Permanent	Active	11/30/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Acetone	0	U		25	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Benzene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Bromodichloromethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Chlorobenzene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Cumene	0	U		10	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	m & p-Xylenes	15			1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	o-Xylene	3.3			1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Styrene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Toluene	2.7			1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-53	MW-53-022218	Permanent	Active	2/22/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Acetone	29.2		J	25	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Benzene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Carbon disulfide	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Cumene	0	U		10	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	m & p-Xylenes	20.4			1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	o-Xylene	3.6			1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Styrene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Toluene	3.3			1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-53	MW-53-051018	Permanent	Active	5/10/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Acetone	0	U		25	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Benzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Cumene	0	U		10	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Methylene Chloride	0	U		3	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Styrene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Toluene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-53	MW-53-080218	Permanent	Active	8/2/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,1,1,2-Tetrachloroethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2,3-Trichlorobenzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2,3-Trichloropropane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2,4,5-Tetrachlorobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2-Dibromoethane	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2-Dichlorobenzene	0	U		10	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,2-Diphenylhydrazine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,3,5-Trinitrobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,3-Dichlorobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,3-Dinitrobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,4-Dichlorobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,4-Dinitrobenzene	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,4-Dioxane (p-Dioxane)	0	U		150	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1,4-Naphthoquinone	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1-Methylnaphthalene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	1-Naphthalenamine	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,2'-Oxybis(1-chloropropane)	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,3,4,6-Tetrachlorophenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,3-Dibromo-1-propanol phosph	0	U		50	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,3-Dichloroaniline	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4,5-T	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4,5-TP (Silvex)	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4,5-Trichlorophenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4,6-Trichlorophenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4-D	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4-Dichlorophenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4-Dimethylphenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4-Dinitrophenol	0	U		50	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,4-Dinitrotoluene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,6-Dichlorophenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2,6-Dinitrotoluene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Acetylaminofluorene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Chloronaphthalene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Chlorophenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Hexanone	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Methyl-5-nitroaniline	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Methylnaphthalene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Methylphenol(o-Cresol)	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Naphthalenamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Nitroaniline	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Nitrophenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	2-Picoline	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	3&4-Methylphenol(m&p Cresol)	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	3,3'-Dichlorobenzidine	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	3,3'-Dimethylbenzidine	0	U		25	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	3-Methylcholanthrene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	3-Nitroaniline	0	U		20	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4,4'-DDD	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4,4'-DDE	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4,4'-DDT	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4,4'-Methylene-bis(2-chloroani	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4,6-Dinitro-2-methylphenol	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4-Aminobiphenyl	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4-Bromophenylphenyl ether	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4-Chloro-3-methylphenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4-Chloroaniline	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4-Chlorophenylphenyl ether	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4-Nitroaniline	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4-Nitrophenol	0	U		50	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	4-Nitroquinoline-n-oxide	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	5-Nitro-o-toluidine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	7,12-Dimethylbenz(a)anthracene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	a,a-Dimethylphenylethylamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Acenaphthene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Acenaphthylene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Acetone	0	U		25	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Acetonitrile	0	U		50	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Acetophenone	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Acrolein	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Acrylonitrile	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Aldrin	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Allyl chloride	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	alpha-BHC	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Aniline	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Anthracene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Antimony, Total	0.61	J		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Aramite	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Arsenic, Total	0.98	J		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Atrazine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Barium, Total	52.1			5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzal chloride	0	U		50	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzaldehyde	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzo(a)anthracene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzo(a)pyrene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzo(b)fluoranthene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzo(g,h,i)perylene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzo(k)fluoranthene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzoic Acid	0	U		50	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzophenone	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Benzyl alcohol	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Beryllium, Total	0	U		0	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	beta-BHC	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Biphenyl (Diphenyl)	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	bis(2-Chloroethoxy)methane	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	bis(2-Chloroethyl) ether	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	bis(2-Ethylhexyl)phthalate	0	U		6	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Bromobenzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Bromochloromethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Bromoform	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Bromomethane	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Butylbenzylphthalate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Cadmium, Total	0.18	J		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Caprolactam	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Carbazole	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Carbon disulfide	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chlordane (Technical)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chlorobenzilate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chloroethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chloroform	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chloromethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chloroprene	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chromium, Total	1.2	J		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Chrysene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Cobalt, Total	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Copper, Total	4.9	J		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Cyanide	0	U		0	mg/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	delta-BHC	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Diallate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dibenz(a,h)anthracene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dibenzo(a,e)pyrene	0	U		50	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dibenzofuran	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dibromomethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dieldrin	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Diethylphthalate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dimethoate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dimethylphthalate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Di-n-butylphthalate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Di-n-octylphthalate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Dinoseb	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Diphenyl ether (Phenyl ether)	0	U		10	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Diphenylamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Disulfoton	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Endosulfan I	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Endosulfan II	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Endosulfan sulfate	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Endrin	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Endrin aldehyde	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Ethyl methacrylate	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Ethyl methanesulfonate	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Famphur	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Fluoranthene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Fluorene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	gamma-BHC (Lindane)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Heptachlor	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Heptachlor epoxide	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Hexachloro-1,3-butadiene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Hexachloro-1,3-butadiene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Hexachlorobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Hexachlorocyclopentadiene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Hexachloroethane	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Hexachlorophene	0	U		100	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Hexachloropropene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Indeno(1,2,3-cd)pyrene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Iodomethane	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Isobutanol	0	U		100	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Isodrin	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Isophorone	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Isosafrole	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Kepone	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Lead, Total	0.049	J		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Mercury, Total	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methacrylonitrile	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methapyrilene	0	U		50	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methoxychlor	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methyl methacrylate	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methyl methanesulfonate	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methyl parathion	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Naphthalene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	n-Decane	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Nickel, Total	22.2			5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Nitrobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitrosodiethylamine	0	U		10	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitrosodimethylamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitroso-di-n-butylamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitroso-di-n-propylamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitrosodiphenylamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitrosomethylethylamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitrosomorpholine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitrosopiperidine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	N-Nitrosopyrrolidine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	n-Octadecane	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	O,O,O-Triethylphosphorothioate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	O-Toluidine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Parathion (Ethyl parathion)	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	PCB-1016 (Aroclor 1016)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	P-Dimethylaminoazobenzene	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Pentachlorobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Pentachloroethane	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Pentachloronitrobenzene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Pentachlorophenol	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Phenacetin	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Phenanthrene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Phenol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Phorate	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	p-Phenylenediamine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Pronamide	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Propionitrile	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Pyrene	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Pyridine	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Safrole	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Selenium, Total	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Silver, Total	0	U		5	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Styrene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Sulfide	0	U		1	mg/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Sulfotepp (Thiodiphosphoric Ac	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Terpineol	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Thallium, Total	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Thionazin	0	U		10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Tin, Total	0	U		20	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Toluene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Toxaphene	0	U		0	ug/L



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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	trans-1,4-Dichloro-2-butene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Vanadium, Total	76			10	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Vinyl acetate	0	U		2	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Xylene (Total)	0	U		1	ug/L
MW-53	MW-53-060920	Permanent	Active	6/9/2020	2 - 12	Zinc, Total	21			10	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,1,1-Trichloroethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2-Trichloroethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,1-Dichloroethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,1-Dichloroethene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,2,4-Trichlorobenzene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dibromoethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichlorobenzene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichloroethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichloropropane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,3-Dichlorobenzene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	1,4-Dichlorobenzene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	2-Hexanone	0			5	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Acetone	0			25	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Benzene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Bromoform	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Bromomethane	0			2	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Carbon tetrachloride	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Chlorobenzene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Chloroethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Chloroform	0			5	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Chloromethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	cis-1,2-Dichloroethylene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	cis-1,3-Dichloropropylene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Cumene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Cyclohexane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Dibromochloromethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Dichlorobromomethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Dichlorodifluoromethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Ethylbenzene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Methyl acetate	0			10	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Methyl ethyl ketone	0			5	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Methyl isobutenyl ketone	0			5	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Methylcyclohexane	0			10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Methylene Chloride	0			5	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Styrene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Tetrachloroethylene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Toluene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	trans-1,2-Dichloroethylene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	trans-1,3-Dichloropropylene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Trichloroethylene	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Trichlorofluoromethane	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Vinyl acetate	0			2	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Vinyl chloride	0			1	ug/L
MW-53	MW-53-102720	Permanent	Active	10/27/2020	2 - 12	Xylene (Total)	0			1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	2-Hexanone	0	U		5	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Acetone	34.4		J	25	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Benzene	7.5			1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Bromoform	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Bromomethane	0	U		2	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Chloroethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Chloroform	0	U		5	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Chloromethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Cumene	2.7		J	1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Cyclohexane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Dibromomethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Ethylbenzene	2.2		J	1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Methyl acetate	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Styrene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Toluene	5.5		J	1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Vinyl acetate	0	U		2	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-53	MW-53-040721	Permanent	Active	4/7/2021	2 - 12	Xylene (Total)	71.8		J	1	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Acetone	0	U		50	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Benzene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Cumene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Styrene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Toluene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-54	MW-54_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	2-Hexanone	0	U	UJ	10	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Acetone	0	U	UJ	50	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Benzene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Bromoform	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Bromomethane	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Cumene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Cyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Dibromochloromethane	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Methyl acetate	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	o-Xylene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Styrene	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Toluene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-54	MW-54-061317	Permanent	Active	6/13/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Acetone	0	U		5	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Benzene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Chloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Cumene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	o-Xylene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Styrene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Toluene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-54	MW-54-120117	Permanent	Active	12/1/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Acetone	0	U		25	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Benzene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Chlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Cumene	0	U		10	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Styrene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Toluene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-54	MW-54-051018	Permanent	Active	5/10/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Acetone	0	U		25	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Benzene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Bromomethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Cumene	0	U		10	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Methylene Chloride	3.4			1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Styrene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Toluene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-54	MW-54-080218	Permanent	Active	8/2/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Acetone	0	U		25	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Benzene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Bromomethane	0	U	UJ	2	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Cumene	0	U		10	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Styrene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Toluene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-54	MW-54-042619	Permanent	Active	4/26/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Acetone	0	U		25	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Benzene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Bromomethane	4.5		J	2	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Cumene	0	U		10	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Styrene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Toluene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-54	MW-54-112119	Permanent	Active	11/21/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	2-Hexanone	0	U		5	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Acetone	0	U		25	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Benzene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Bromoform	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Bromomethane	0	U		2	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Carbon disulfide	0	U		2	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Chloroethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Chloroform	0	U		5	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Chloromethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Cumene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Cyclohexane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Methyl acetate	0	U		10	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	o-Xylene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Styrene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Toluene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-54	MW-54-042820	Permanent	Active	4/28/2020	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,1,1-Trichloroethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2-Trichloroethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,1-Dichloroethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,1-Dichloroethene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,2,4-Trichlorobenzene	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dibromoethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichlorobenzene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichloroethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichloropropane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,3-Dichlorobenzene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	1,4-Dichlorobenzene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	2-Hexanone	0			5	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Acetone	0			25	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Benzene	2.3			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Bromoform	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Bromomethane	0			2	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Carbon tetrachloride	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Chlorobenzene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Chloroethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Chloroform	0			5	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Chloromethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	cis-1,2-Dichloroethylene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	cis-1,3-Dichloropropylene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Cumene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Cyclohexane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Dibromochloromethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Dichlorobromomethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Dichlorodifluoromethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Ethylbenzene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Methyl acetate	0			10	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Methyl ethyl ketone	0			5	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Methyl isobutenyl ketone	0			5	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Methylcyclohexane	0			10	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Methylene Chloride	0			5	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Styrene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Tetrachloroethylene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Toluene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	trans-1,2-Dichloroethylene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	trans-1,3-Dichloropropylene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Trichloroethylene	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Trichlorofluoromethane	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Vinyl acetate	0			2	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Vinyl chloride	0			1	ug/L
MW-54	MW-54-102720	Permanent	Active	10/27/2020	2 - 12	Xylene (Total)	0			1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,1-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	2-Hexanone	0	U		5	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Acetone	32.1			25	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Benzene	3.3			1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Bromoform	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Bromomethane	0	U		2	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Chloroethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Chloroform	0	U		5	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Chloromethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Cumene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Cyclohexane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Dibromomethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Methyl acetate	0	U		10	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Styrene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Toluene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Vinyl acetate	0	U		2	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-54	MW-54-040721	Permanent	Active	4/7/2021	2 - 12	Xylene (Total)	0	U		1	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Acetone	0	U		50	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Benzene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Cumene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Styrene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Toluene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55_8/24/15_NM	Permanent	Active	8/24/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	2-Hexanone	0	U		10	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Acetone	0	U		50	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Benzene	1.4	J		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Bromoform	0	U	UJ	5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Bromomethane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Chloroethane	0	U		10	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Chloroform	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Chloromethane	0	U		10	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Cumene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Dibromochloromethane	0	U	UJ	5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Methylene chloride	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	o-Xylene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Styrene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Toluene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-55	MW-55-032417	Permanent	Active	3/24/2017	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Acetone	11.4			5	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Benzene	19			1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Cumene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Styrene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-092817	Permanent	Active	9/28/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Acetone	0	U		5	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Benzene	11.4			1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Cumene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Methylene Chloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-120117	Permanent	Active	12/1/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Benzene	29.8			1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Benzene	27.6			1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Bromodichloromethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Cumene	0	U		10	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Methyl acetate	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-022318	Permanent	Active	2/23/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Benzene	21.6		J	1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Cumene	0	U		10	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-051018	Permanent	Active	5/10/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Benzene	8.3	J		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Cumene	0	U		10	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Cyclohexane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	m & p-Xylenes	1.3			1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Methylene Chloride	0	U	U	3	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-080218	Permanent	Active	8/2/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Benzene	16		J	1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Cumene	0	U		10	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	m & p-Xylenes	9.1		J	1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	o-Xylene	2.3			1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Toluene	2		J	1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-101818	Permanent	Active	10/18/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Benzene	2.3			1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Benzene	2.7			1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Chloroform	0	U	U	1.6	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Cumene	0	U		10	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Cumene	0	U		10	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Methyl acetate	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-042619-DUP	Permanent	Active	4/26/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-042619	Permanent	Active	4/26/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Benzene	1.8			1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Bromomethane	5.5		J	2	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Cumene	0	U		10	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-112119	Permanent	Active	11/21/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	2-Hexanone	0	U		5	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Acetone	0	U		25	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Benzene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Benzene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Bromoform	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Bromomethane	0	U		2	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Bromomethane	0	U		2	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Carbon disulfide	0	U		2	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Carbon disulfide	0	U		2	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Chloroethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Chloroform	0	U		5	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Chloroform	0	U		5	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Chloromethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Cumene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Cumene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Cyclohexane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Cyclohexane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Dibromochloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	m & p-Xylenes	0	U		2	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Methyl acetate	0	U		10	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Methyl acetate	0	U		10	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Methylene Chloride	0	U		5	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	o-Xylene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Styrene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Toluene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-55	MW-55-042820_DUP	Permanent	Active	4/28/2020	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-042820	Permanent	Active	4/28/2020	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,1,1-Trichloroethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2-Trichloroethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,1-Dichloroethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,1-Dichloroethene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,2,4-Trichlorobenzene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dibromo-3-chloropropane	0			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dibromoethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichlorobenzene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichloroethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,2-Dichloropropane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,3-Dichlorobenzene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	1,4-Dichlorobenzene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	2-Hexanone	0			5	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Acetone	0			25	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Benzene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Bromoform	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Bromomethane	0			2	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Carbon tetrachloride	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Chlorobenzene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Chloroethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Chloroform	0			5	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Chloromethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	cis-1,2-Dichloroethylene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	cis-1,3-Dichloropropylene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Cumene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Cyclohexane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Dibromochloromethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Dichlorobromomethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Dichlorodifluoromethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Ethylbenzene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Methyl acetate	0			10	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Methyl ethyl ketone	0			5	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Methyl isobutenyl ketone	0			5	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Methylcyclohexane	0			10	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Methylene Chloride	0			5	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Styrene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Tetrachloroethylene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Toluene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	trans-1,2-Dichloroethylene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	trans-1,3-Dichloropropylene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Trichloroethylene	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Trichlorofluoromethane	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Vinyl acetate	0			2	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Vinyl chloride	0			1	ug/L
MW-55	MW-55-102720	Permanent	Active	10/27/2020	2 - 12	Xylene (Total)	0			1	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,1,1-Trichloroethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,1,2-Trichloroethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,1-Dichloroethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,1-Dichloroethene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data**  
**Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,2-Dibromoethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,2-Dichlorobenzene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,2-Dichloroethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,2-Dichloropropane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,3-Dichlorobenzene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	1,4-Dichlorobenzene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	2-Hexanone	0	U		10	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Acetone	0	U		50	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Benzene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Bromoform	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Bromomethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Carbon disulfide	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Carbon tetrachloride	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Chlorobenzene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Chloroethane	0	U		10	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Chloroform	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Chloromethane	0	U		10	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Cumene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Cyclohexane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Dibromochloromethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Dichlorobromomethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Dichlorodifluoromethane	0	U		10	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Ethylbenzene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	m & p-Xylenes	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Methyl acetate	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Methyl ethyl ketone	0	U		50	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Methylcyclohexane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Methylene chloride	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	o-Xylene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Styrene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Tetrachloroethylene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Toluene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Trichloroethylene	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Trichlorofluoromethane	0	U		5	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Trichlorotrifluoroethane	0	U		10	ug/L
MW-56	MW-56_8/24/15_NM	Permanent	Abandoned	8/24/2015	5.1 - 15.1	Vinyl chloride	0	U		2	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,1,1-Trichloroethane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,1,2-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,1-Dichloroethane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,1-Dichloroethene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,2-Dibromoethane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,2-Dichlorobenzene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,2-Dichloroethane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,2-Dichloropropane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,3-Dichlorobenzene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	1,4-Dichlorobenzene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	2-Hexanone	0	U		10	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Acetone	0	U		50	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Benzene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Bromoform	0	U	UJ	5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Bromomethane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Carbon disulfide	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Carbon tetrachloride	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Chlorobenzene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Chloroethane	0	U		10	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Chloroform	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Chloromethane	0	U		10	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Cumene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Cyclohexane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Dibromochloromethane	0	U	UJ	5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Dichlorodifluoromethane	0	U		10	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Ethylbenzene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	m & p-Xylenes	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Methyl acetate	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Methyl ethyl ketone	0	U		50	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Methylcyclohexane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Methylene chloride	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	o-Xylene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Styrene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Tetrachloroethylene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Toluene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Trichloroethylene	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Trichlorofluoromethane	0	U		5	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Trichlorotrifluoroethane	0	U		10	ug/L
MW-56	MW-56-032417	Permanent	Abandoned	3/24/2017	5.1 - 15.1	Vinyl chloride	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data**  
**Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,2-Dibromoethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Acetone	0	U		5	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Benzene	27.2			1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Bromomethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Carbon disulfide	0	U		5	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Cumene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Cyclohexane	0	U		5	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	m & p-Xylenes	0	U		2	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Methyl acetate	0	U		5	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Methylcyclohexane	0	U		5	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Methylene Chloride	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Toluene	1.2			1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfolD	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-56	MW-56-092817	Permanent	Abandoned	9/28/2017	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,2-Dibromoethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Acetone	0	U		5	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Benzene	3.6			1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Bromomethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Carbon disulfide	0	U		5	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Cumene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Cyclohexane	0	U		5	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	m & p-Xylenes	0	U		2	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Methyl acetate	0	U		5	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Methylcyclohexane	0	U		5	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Methylene Chloride	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-56	MW-56-120117	Permanent	Abandoned	12/1/2017	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,2-Dibromoethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Acetone	0	U		25	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Benzene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Bromodichloromethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Bromomethane	0	U		2	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Carbon disulfide	0	U		10	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Cumene	0	U		10	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Cyclohexane	0	U		10	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	m & p-Xylenes	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Methyl acetate	0	U		10	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Methylcyclohexane	0	U		10	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Methylene Chloride	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-56	MW-56-022218	Permanent	Abandoned	2/22/2018	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,2-Dibromoethane	0	U		2	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Acetone	0	U		25	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Benzene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Bromomethane	0	U		2	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Carbon disulfide	0	U		10	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Cumene	0	U		10	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Cyclohexane	0	U		10	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	m & p-Xylenes	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Methyl acetate	0	U		10	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Methylcyclohexane	0	U		10	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Methylene Chloride	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-56	MW-56-051018	Permanent	Abandoned	5/10/2018	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dibromoethane	0	U		2	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Acetone	0	U		25	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Benzene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Bromomethane	0	U		2	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Carbon disulfide	0	U		10	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Cumene	0	U		10	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Cyclohexane	0	U		10	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	m & p-Xylenes	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methyl acetate	0	U		10	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methylcyclohexane	0	U		10	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methylene Chloride	0	U	U	2.6	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-56	MW-56-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,2-Dibromoethane	0	U		2	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Acetone	0	U		25	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Benzene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Bromomethane	0	U		2	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Carbon disulfide	0	U		10	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Cumene	0	U		10	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Cyclohexane	0	U		10	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	m & p-Xylenes	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Methyl acetate	0	U		10	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Methylcyclohexane	0	U		10	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Methylene Chloride	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-56	MW-56-042619	Permanent	Abandoned	4/26/2019	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,2-Dibromoethane	0	U		2	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Acetone	0	U		25	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Benzene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Bromomethane	4.4		J	2	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Carbon disulfide	0	U		10	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Cumene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Cyclohexane	0	U		10	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	m & p-Xylenes	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Methyl acetate	0	U		10	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Methylcyclohexane	0	U		10	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Methylene Chloride	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-56	MW-56-112119	Permanent	Abandoned	11/21/2019	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,2-Dibromoethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Acetone	0	U		25	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Benzene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Bromomethane	0	U		2	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Carbon disulfide	0	U		2	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Chloroform	0	U		5	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Chloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Cumene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Cyclohexane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	m & p-Xylenes	0	U		2	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Methyl acetate	0	U		10	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Methylcyclohexane	0	U		10	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Methylene Chloride	0	U		5	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-56	MW-56-042820	Permanent	Abandoned	4/28/2020	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Acetone	0	U		50	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Benzene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Chloroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Cumene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Styrene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Toluene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-57	MW-57_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1,1-Trichloroethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1,2-Trichloroethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1-Dichloroethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,1-Dichloroethene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dibromoethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dichlorobenzene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dichloroethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,2-Dichloropropane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,3-Dichlorobenzene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	1,4-Dichlorobenzene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	2-Hexanone	0	U		10	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Acetone	0	U		50	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Benzene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Bromoform	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Bromomethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Carbon disulfide	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Carbon tetrachloride	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Chlorobenzene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Chloroethane	0	U		10	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Chloroform	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Chloromethane	0	U		10	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Cumene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Cyclohexane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Dibromochloromethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Dichlorobromomethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Dichlorodifluoromethane	0	U		10	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Ethylbenzene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	m & p-Xylenes	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methyl acetate	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methyl ethyl ketone	0	U		50	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methyl isobutenyl ketone	0	U		10	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Methylene chloride	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	o-Xylene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Styrene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Tetrachloroethylene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Toluene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Trichloroethylene	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Trichlorofluoromethane	0	U		5	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Trichlorotrifluoroethane	0	U		10	ug/L
MW-58	MW-58_9/1/15_NM	Permanent	Active	9/1/2015	2 - 12	Vinyl chloride	0	U		2	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dibromoethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	2-Hexanone	0	U		5	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Acetone	43.8			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Benzene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Bromoform	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Bromomethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Carbon disulfide	0	U		5	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Chloroethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Chloroform	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Chloromethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Cumene	2.5			1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Cyclohexane	0	U		5	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	m & p-Xylenes	4			2	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Methyl acetate	0	U		5	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Methyl ethyl ketone	6.4			5	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Methylcyclohexane	0	U		5	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	o-Xylene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Styrene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Toluene	2.5			1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-58	MW-58-113017	Permanent	Active	11/30/2017	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	2-Hexanone	0	U		5	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Acetone	0	U		25	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Benzene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Bromoform	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Bromomethane	0	U		2	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Chloroethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Chloroform	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Chloromethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Cumene	0	U		10	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Cyclohexane	0	U		10	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Methyl acetate	0	U		10	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Methylene Chloride	3.2			1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	o-Xylene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Styrene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Toluene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-58	MW-58-080218	Permanent	Active	8/2/2018	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Acetone	0	U		25	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Benzene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Cumene	0	U		10	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Styrene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Toluene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-58	MW-58-042519	Permanent	Active	4/25/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,1,1-Trichloroethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2-Trichloroethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,1-Dichloroethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,1-Dichloroethene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,2,4-Trichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dibromoethane	0	U		2	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichloroethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,2-Dichloropropane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,3-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	1,4-Dichlorobenzene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	2-Hexanone	0	U		5	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Acetone	0	U		25	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Benzene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Bromoform	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Bromomethane	0	U		2	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Carbon disulfide	0	U		10	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Carbon tetrachloride	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Chlorobenzene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Chloroethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Chloroform	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Chloromethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Cumene	0	U		10	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Cyclohexane	0	U		10	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Dibromochloromethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Dichlorobromomethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Dichlorodifluoromethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Ethylbenzene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	m & p-Xylenes	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Methyl acetate	0	U		10	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Methyl ethyl ketone	0	U		5	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Methyl isobutenyl ketone	0	U		5	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Methylcyclohexane	0	U		10	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Methylene Chloride	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	o-Xylene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Styrene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Tetrachloroethylene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Toluene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Trichloroethylene	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Trichlorofluoromethane	0	U		1	ug/L
MW-58	MW-58-112119	Permanent	Active	11/21/2019	2 - 12	Vinyl chloride	0	U		1	ug/L
MW-58	MW-58-061020	Permanent	Active	6/10/2020	2 - 12	Arsenic, Total	2.7	J		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,1,1-Trichloroethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,1,2-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,1-Dichloroethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,1-Dichloroethene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,2-Dibromoethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,2-Dichlorobenzene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,2-Dichloroethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,2-Dichloropropane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,3-Dichlorobenzene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	1,4-Dichlorobenzene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	2-Hexanone	0	U		10	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Acetone	0	U		50	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Benzene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Bromoform	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Bromomethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Carbon disulfide	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Carbon tetrachloride	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Chlorobenzene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Chloroethane	0	U		10	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Chloroform	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Chloromethane	0	U		10	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Cumene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Cyclohexane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Dibromochloromethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Dichlorobromomethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Dichlorodifluoromethane	0	U		10	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Ethylbenzene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	m & p-Xylenes	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Methyl acetate	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Methyl ethyl ketone	0	U		50	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Methyl isobutenyl ketone	0	U		10	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Methylcyclohexane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Methylene chloride	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	o-Xylene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Styrene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Tetrachloroethylene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Toluene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Trichloroethylene	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Trichlorofluoromethane	0	U		5	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Trichlorotrifluoroethane	0	U		10	ug/L
MW-59	MW-59_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.1 - 15.1	Vinyl chloride	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,2-Dibromoethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Acetone	20.4			5	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Benzene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Bromomethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Carbon disulfide	0	U		5	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Cumene	1.3			1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Cyclohexane	0	U		5	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	m & p-Xylenes	2.1			2	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Methyl acetate	0	U		5	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Methylcyclohexane	0	U		5	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Methylene Chloride	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-59	MW-59-113017	Permanent	Abandoned	11/30/2017	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1-Dichloroethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,1-Dichloroethene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dibromoethane	0	U		2	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dichloroethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,2-Dichloropropane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	2-Hexanone	0	U		5	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Acetone	0	U		25	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Benzene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Bromoform	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Bromomethane	0	U		2	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Carbon disulfide	0	U		10	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Carbon tetrachloride	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Chlorobenzene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Chloroethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Chloroform	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Chloromethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Cumene	0	U		10	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Cyclohexane	0	U		10	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Dibromochloromethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Dichlorobromomethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Ethylbenzene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	m & p-Xylenes	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methyl acetate	0	U		10	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methyl ethyl ketone	0	U		5	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methylcyclohexane	0	U		10	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Methylene Chloride	0	U		2.8	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	o-Xylene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Styrene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Tetrachloroethylene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Toluene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Trichloroethylene	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Trichlorofluoromethane	0	U		1	ug/L
MW-59	MW-59-080218	Permanent	Abandoned	8/2/2018	5.1 - 15.1	Vinyl chloride	0	U		1	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	2-Hexanone	0	U		1000	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Acetone	0	U		2500	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Benzene	0	U		50	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Carbon disulfide	0	U		2500	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	cis-1,2-Dichloroethylene	0	U		50	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Ethylbenzene	0	U		50	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	m & p-Xylenes	0	U		100	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl ethyl ketone	0	U		1000	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl isobutenyl ketone	0	U		1000	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	o-Xylene	0	U		50	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Tetrachloroethylene	0	U		5	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Toluene	0	U		50	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Trichloroethylene	0	U		5	ug/L
MW-6	MW-6_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Vinyl chloride	0	U		50	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,1,1-Trichloroethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,1,2-Trichloroethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,1-Dichloroethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,1-Dichloroethene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,2-Dibromoethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,2-Dichlorobenzene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,2-Dichloroethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,2-Dichloropropane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,3-Dichlorobenzene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	1,4-Dichlorobenzene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	2-Hexanone	0	U		10	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Acetone	0	U		50	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Benzene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Bromoform	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Bromomethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Carbon disulfide	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Carbon tetrachloride	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Chlorobenzene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Chloroethane	0	U		10	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Chloroform	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Chloromethane	0	U		10	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	cis-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Cumene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Cyclohexane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Dibromochloromethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Dichlorobromomethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Dichlorodifluoromethane	0	U		10	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Ethylbenzene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	m & p-Xylenes	9.2				ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Methyl acetate	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Methyl ethyl ketone	0	U		50	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Methyl isobutenyl ketone	0	U		10	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Methylcyclohexane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Methylene chloride	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	o-Xylene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Styrene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Tetrachloroethylene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Toluene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Trichloroethylene	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Trichlorofluoromethane	0	U		5	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Trichlorotrifluoroethane	0	U		10	ug/L
MW-60	MW-60_9/1/15_NM	Permanent	Abandoned	9/1/2015	5.2 - 15.2	Vinyl chloride	0	U		2	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,1,1-Trichloroethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,1,2-Trichloroethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,1-Dichloroethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,1-Dichloroethene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,2-Dibromoethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,2-Dichlorobenzene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,2-Dichloroethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,2-Dichloropropane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,3-Dichlorobenzene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	1,4-Dichlorobenzene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	2-Hexanone	0	U		10	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Acetone	0	U		50	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Benzene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Bromoform	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Bromomethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Carbon disulfide	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Carbon tetrachloride	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Chlorobenzene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Chloroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Chloroform	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Chloromethane	0	U		10	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Cumene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Cyclohexane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Dibromochloromethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Dichlorobromomethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Dichlorodifluoromethane	0	U		10	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Ethylbenzene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	m & p-Xylenes	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Methyl acetate	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Methyl ethyl ketone	0	U		50	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Methylcyclohexane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Methylene chloride	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	o-Xylene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Styrene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Tetrachloroethylene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Toluene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Trichloroethylene	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Trichlorofluoromethane	0	U		5	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Trichlorotrifluoroethane	0	U		10	ug/L
MW-61	MW-61_10/16/15_NM	Permanent	Abandoned	10/16/2015	41.7 - 46.7	Vinyl chloride	0	U		2	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	2-Hexanone	0	U		10	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Acetone	0	U		50	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Benzene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Carbon disulfide	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Cumene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Ethylbenzene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	m & p-Xylenes	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Methyl acetate	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Methyl ethyl ketone	0	U		50	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	o-Xylene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Tetrachloroethylene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Toluene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Trichloroethylene	0	U		5	ug/L
MW-61	MW-61_11/10/15_NM	Permanent	Abandoned	11/10/2015	41.7 - 46.7	Vinyl chloride	0	U		2	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,1,1-Trichloroethane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,1,2,2-Tetrachloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,1,2-Trichloroethane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,1-Dichloroethane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,1-Dichloroethene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,2-Dibromoethane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,2-Dichlorobenzene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,2-Dichloroethane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,2-Dichloropropane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,3-Dichlorobenzene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	1,4-Dichlorobenzene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	2-Hexanone	0	U		10	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Acetone	0	U		50	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Benzene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Bromoform	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Bromomethane	0	U	UJ	5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Carbon disulfide	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Carbon tetrachloride	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Chlorobenzene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Chloroethane	0	U		10	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Chloroform	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Chloromethane	0	U		10	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Cumene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Cyclohexane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Dibromochloromethane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Dichlorobromomethane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Dichlorodifluoromethane	0	U		10	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Ethylbenzene	0	U	UJ	5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	m & p-Xylenes	0	U	UJ	5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Methyl acetate	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Methyl ethyl ketone	0	U		50	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Methylcyclohexane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Methylene chloride	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	o-Xylene	0	U	UJ	5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Styrene	0	U	UJ	5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Tetrachloroethylene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Toluene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Trichloroethylene	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Trichlorofluoromethane	0	U		5	ug/L
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Trichlorotrifluoroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-61	MW-61-032517	Permanent	Abandoned	3/25/2017	41.7 - 46.7	Vinyl chloride	0	U		2	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,1-Dichloroethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,1-Dichloroethene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,2-Dibromoethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,2-Dichloroethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,2-Dichloropropane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	2-Hexanone	0	U		5	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Acetone	0	U		25	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Benzene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Bromodichloromethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Bromoform	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Bromomethane	0	U		2	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Carbon disulfide	0	U		10	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Carbon tetrachloride	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Chlorobenzene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Chloroethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Chloroform	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Chloromethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Cumene	0	U		10	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Cyclohexane	0	U		10	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Dibromochloromethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Ethylbenzene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	m & p-Xylenes	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Methyl acetate	0	U		10	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Methyl ethyl ketone	0	U		5	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Methylcyclohexane	0	U		10	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Methylene Chloride	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	o-Xylene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Styrene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Tetrachloroethylene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Toluene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Trichloroethylene	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Trichlorofluoromethane	0	U		1	ug/L
MW-61	MW-61-022418	Permanent	Abandoned	2/24/2018	41.7 - 46.7	Vinyl chloride	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,1-Dichloroethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,1-Dichloroethene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,2-Dibromoethane	0	U		2	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,2-Dichloroethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,2-Dichloropropane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	2-Hexanone	0	U		5	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Acetone	0	U		25	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Benzene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Bromoform	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Bromomethane	0	U		2	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Carbon disulfide	0	U		10	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Carbon tetrachloride	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Chlorobenzene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Chloroethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Chloroform	0	U	U	1.1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Chloromethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Cumene	0	U		10	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Cyclohexane	0	U		10	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Dibromochloromethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Dichlorobromomethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Ethylbenzene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	m & p-Xylenes	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Methyl acetate	0	U		10	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Methyl ethyl ketone	0	U		5	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Methylcyclohexane	0	U		10	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Methylene Chloride	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	o-Xylene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Styrene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Tetrachloroethylene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Toluene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Trichloroethylene	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Trichlorofluoromethane	0	U		1	ug/L
MW-61	MW-61-042619	Permanent	Abandoned	4/26/2019	41.7 - 46.7	Vinyl chloride	0	U		1	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1,1-Trichloroethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1,1-Trichloroethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1,2-Trichloroethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1,2-Trichloroethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1-Dichloroethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1-Dichloroethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1-Dichloroethene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,1-Dichloroethene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U	UJ	50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dibromoethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dibromoethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dichlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dichloroethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dichloroethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dichloropropane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,2-Dichloropropane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,3-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,3-Dichlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,4-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	1,4-Dichlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	2-Hexanone	0	U	UJ	10	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	2-Hexanone	0	U	UJ	100	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Acetone	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Acetone	40	J		500	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Benzene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Benzene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Bromoform	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Bromoform	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Bromomethane	0	U	UJ	5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Bromomethane	0	U	UJ	50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Carbon disulfide	4.9	J		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Carbon disulfide	11	J		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Carbon tetrachloride	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Chlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Chlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Chloroethane	0	U		10	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Chloroethane	0	U		100	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Chloroform	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Chloroform	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Chloromethane	0	U		10	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Chloromethane	0	U		100	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	cis-1,2-Dichloroethylene	780			250	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	cis-1,2-Dichloroethylene	760			250	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U	UJ	50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Cumene	1.4	J		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Cumene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Cyclohexane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Cyclohexane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Dibromochloromethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Dibromochloromethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Dichlorobromomethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Dichlorobromomethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Dichlorodifluoromethane	0	U		10	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Dichlorodifluoromethane	0	U		100	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Ethylbenzene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Ethylbenzene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	m & p-Xylenes	1.4	J	J	5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	m & p-Xylenes	0	U	UJ	50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methyl acetate	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methyl acetate	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methyl ethyl ketone	0	U	UJ	50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methyl ethyl ketone	0	U	UJ	500	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methyl isobutenyl ketone	0	U		10	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methyl isobutenyl ketone	0	U		100	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methylcyclohexane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methylcyclohexane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methylene chloride	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Methylene chloride	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	o-Xylene	0	U	UJ	50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	o-Xylene	0	U	UJ	5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Styrene	0	U	UJ	50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Styrene	0	U	UJ	5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Tetrachloroethylene	26	J	J	50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Tetrachloroethylene	27			5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Toluene	0	U	UJ	50	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Toluene	7.8		J	5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Trichloroethylene	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Trichloroethylene	5.8			5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Trichlorofluoromethane	0	U		50	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Trichlorofluoromethane	0	U		5	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Trichlorotrifluoroethane	0	U		10	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Trichlorotrifluoroethane	0	U		100	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Vinyl chloride	20		J	20	ug/L
MW-62A	MW-62A-032517	Permanent	Active	3/25/2017	17.6 - 22.6	Vinyl chloride	28		J	2	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,1,1-Trichloroethane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,1,2-Trichloroethane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,1-Dichloroethane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,1-Dichloroethene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,2-Dibromoethane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,2-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,2-Dichloroethane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,2-Dichloropropane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,3-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	1,4-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	2-Hexanone	0	U		10	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Acetone	26	J		50	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Benzene	0.45	J		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Bromoform	0	U	UJ	5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Bromomethane	0	U	UJ	5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Carbon disulfide	1.4	J		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Chlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Chloroethane	0	U		10	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Chloroform	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Chloromethane	0	U		10	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	cis-1,2-Dichloroethylene	520			50	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Cumene	1.4	J		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Cyclohexane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Dibromochloromethane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Dichlorobromomethane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Dichlorodifluoromethane	0	U		10	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Ethylbenzene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	m & p-Xylenes	1.4	J		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Methyl acetate	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Methyl ethyl ketone	0	U		50	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Methyl isobutenyl ketone	0	U		10	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Methylcyclohexane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Methylene chloride	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	o-Xylene	0.31	J		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Styrene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Tetrachloroethylene	39			5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Toluene	4.9	J		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Trichloroethylene	8.4			5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Trichlorofluoromethane	0	U		5	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Trichlorotrifluoroethane	0	U		10	ug/L
MW-62A	MW-62A-061417	Permanent	Active	6/14/2017	17.6 - 22.6	Vinyl chloride	15			2	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,1-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,1-Dichloroethene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,2-Dibromoethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,2-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,2-Dichloropropane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	2-Hexanone	0	U		5	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Acetone	15.2			5	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Benzene	1.9			1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Bromoform	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Bromomethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Carbon disulfide	0	U		5	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Carbon tetrachloride	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Chlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Chloroethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Chloroform	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Chloromethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	cis-1,2-Dichloroethylene	941			10	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Cumene	2.3			1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Cyclohexane	0	U		5	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Dibromochloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Dichlorobromomethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Dichlorodifluoromethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Ethylbenzene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	m & p-Xylenes	0	U		2	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Methyl acetate	0	U		5	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Methyl ethyl ketone	0	U		5	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Methylcyclohexane	0	U		5	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Methylene Chloride	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	o-Xylene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Styrene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Tetrachloroethylene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Toluene	8.3			1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	trans-1,2-Dichloroethylene	1.9			1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Trichloroethylene	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Trichlorofluoromethane	0	U		1	ug/L
MW-62A	MW-62A-093017	Permanent	Active	9/30/2017	17.6 - 22.6	Vinyl chloride	36.4			1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,1-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,1-Dichloroethene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,2-Dibromoethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,2-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,2-Dichloropropane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	2-Hexanone	0	U		5	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Acetone	0	U		25	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Benzene	1.3			1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Benzene	1.2			1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Bromodichloromethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Bromoform	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Bromomethane	0	U		2	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Carbon disulfide	0	U		10	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Carbon tetrachloride	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Chlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Chloroethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Chloroform	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Chloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	cis-1,2-Dichloroethylene	1200			100	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	cis-1,2-Dichloroethylene	1230			100	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Cumene	0	U		10	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Cyclohexane	0	U		10	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Dibromochloromethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Dichlorodifluoromethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Ethylbenzene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	m & p-Xylenes	4.9			1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Methyl acetate	0	U		10	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Methyl ethyl ketone	0	U		5	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Methylcyclohexane	0	U		10	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Methylene Chloride	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	o-Xylene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	o-Xylene	2.3		J	1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Styrene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Tetrachloroethylene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Toluene	7			1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Toluene	6.8			1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Trichloroethylene	1.9			1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Trichloroethylene	2.5		J	1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Trichlorofluoromethane	0	U		1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Vinyl chloride	34.2			1	ug/L
MW-62A	MW-62A-022418	Permanent	Active	2/24/2018	17.6 - 22.6	Vinyl chloride	30.2			1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,1-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,1-Dichloroethene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,2-Dibromoethane	0	U		2	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,2-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,2-Dichloropropane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	2-Hexanone	0	U		5	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Acetone	0	U		25	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Benzene	1.1			1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Bromoform	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Bromomethane	0	U		2	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Carbon disulfide	0	U		10	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Carbon tetrachloride	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Chlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Chloroethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Chloroform	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Chloromethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	cis-1,2-Dichloroethylene	768			10	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Cumene	0	U		10	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Cyclohexane	0	U		10	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Dibromochloromethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Dichlorobromomethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Dichlorodifluoromethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Ethylbenzene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	m & p-Xylenes	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Methyl acetate	0	U		10	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Methyl ethyl ketone	0	U		5	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Methylcyclohexane	0	U		10	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Methylene Chloride	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	o-Xylene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Styrene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Tetrachloroethylene	3.1			1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Toluene	6.3			1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	trans-1,2-Dichloroethylene	1.6			1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Trichloroethylene	6.8			1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Trichlorofluoromethane	0	U		1	ug/L
MW-62A	MW-62A-051118	Permanent	Active	5/11/2018	17.6 - 22.6	Vinyl chloride	39.6		J	1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,1-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,1-Dichloroethene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,2-Dibromoethane	0	U		2	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,2-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,2-Dichloropropane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	2-Hexanone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Acetone	30.6			25	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Benzene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Bromoform	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Bromomethane	0	U		2	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Carbon disulfide	0	U		10	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Carbon tetrachloride	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Chlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Chloroethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Chloroform	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Chloromethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	cis-1,2-Dichloroethylene	696			10	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Cumene	0	U		10	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Cyclohexane	0	U		10	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Dibromochloromethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Dichlorobromomethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Dichlorodifluoromethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Ethylbenzene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	m & p-Xylenes	1.7			1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Methyl acetate	0	U		10	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Methyl ethyl ketone	0	U		5	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Methylcyclohexane	0	U		10	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Methylene Chloride	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	o-Xylene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Styrene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Tetrachloroethylene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Toluene	6.2			1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Trichloroethylene	3			1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Trichlorofluoromethane	0	U		1	ug/L
MW-62A	MW-62A-080418	Permanent	Active	8/4/2018	17.6 - 22.6	Vinyl chloride	16.7			1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,1-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,1-Dichloroethene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,2-Dibromoethane	0	U		2	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,2-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,2-Dichloropropane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	2-Hexanone	0	U		5	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Acetone	37.8			25	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Benzene	1.1			1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Bromoform	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Bromomethane	0	U		2	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Carbon disulfide	0	U		10	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Carbon tetrachloride	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Chlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Chloroethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Chloroform	0	U	U	1.4	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Chloromethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	cis-1,2-Dichloroethylene	650			10	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Cumene	0	U		10	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Cyclohexane	0	U		10	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Dibromochloromethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Dichlorobromomethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Dichlorodifluoromethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Ethylbenzene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	m & p-Xylenes	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Methyl acetate	0	U		10	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Methyl ethyl ketone	0	U		5	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Methylcyclohexane	0	U		10	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Methylene Chloride	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	o-Xylene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Styrene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Tetrachloroethylene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Toluene	4.3			1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Trichloroethylene	1.4			1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Trichlorofluoromethane	0	U		1	ug/L
MW-62A	MW-62A-042619	Permanent	Active	4/26/2019	17.6 - 22.6	Vinyl chloride	14			1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,1-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,1-Dichloroethene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,2-Dibromoethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,2-Dichloroethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,2-Dichloropropane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	2-Hexanone	0	U		5	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Acetone	0	U		25	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Benzene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Bromoform	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Bromomethane	0	U		2	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Carbon disulfide	0	U		10	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Carbon tetrachloride	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Chlorobenzene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Chloroethane	2.6			1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Chloroform	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Chloromethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	cis-1,2-Dichloroethylene	259			10	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Cumene	0	U		10	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Cyclohexane	0	U		10	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Dibromochloromethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Dichlorobromomethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Dichlorodifluoromethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Ethylbenzene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	m & p-Xylenes	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Methyl acetate	0	U		10	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Methyl ethyl ketone	0	U		5	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Methylcyclohexane	0	U		10	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Methylene Chloride	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	o-Xylene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Styrene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Tetrachloroethylene	2.1			1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Toluene	1.6		J	1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Trichloroethylene	1.4			1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Trichlorofluoromethane	0	U		1	ug/L
MW-62A	MW-62A-112319	Permanent	Active	11/23/2019	17.6 - 22.6	Vinyl chloride	8			1	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,1,1-Trichloroethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,1,2-Trichloroethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,1-Dichloroethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,1-Dichloroethene	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		50	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,2-Dibromoethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,2-Dichlorobenzene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,2-Dichloroethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,2-Dichloropropane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,3-Dichlorobenzene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	1,4-Dichlorobenzene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	2-Hexanone	0	U		50	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Acetone	0	U		250	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Benzene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Bromoform	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Bromomethane	0	U		20	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Carbon disulfide	0	U		20	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Carbon tetrachloride	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Chlorobenzene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Chloroethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Chloroform	0	U		50	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Chloromethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	cis-1,2-Dichloroethylene	435			10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Cumene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Cyclohexane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Dibromochloromethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Dichlorobromomethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Dichlorodifluoromethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Ethylbenzene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	m & p-Xylenes	0	U		20	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Methyl acetate	0	U		100	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Methyl ethyl ketone	0	U		50	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Methyl isobutenyl ketone	0	U		50	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Methylcyclohexane	0	U		100	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Methylene Chloride	0	U		50	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	o-Xylene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Styrene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Tetrachloroethylene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Toluene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Trichloroethylene	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Trichlorofluoromethane	0	U		10	ug/L
MW-62A	MW-62A-042920	Permanent	Active	4/29/2020	17.6 - 22.6	Vinyl chloride	10.3			10	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,1,1,2-Tetrachloroethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,1,1-Trichloroethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,1,2-Trichloroethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,1-Dichloroethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,1-Dichloroethene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2,3-Trichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2,3-Trichloropropane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2,4,5-Tetrachlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2-Dibromoethane	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2-Dichlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2-Dichloroethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2-Dichloropropane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,2-Diphenylhydrazine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,3,5-Trinitrobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,3-Dichlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,3-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,3-Dinitrobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,4-Dichlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,4-Dichlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,4-Dinitrobenzene	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,4-Dioxane (p-Dioxane)	0	U		750	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1,4-Naphthoquinone	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1-Methylnaphthalene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	1-Naphthalenamine	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,2'-Oxybis(1-chloropropane)	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,3,4,6-Tetrachlorophenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,3-Dibromo-1-propanol phosph	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,3-Dichloroaniline	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4,5-T	0	U		2	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4,5-TP (Silvex)	0	U		2	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4,5-Trichlorophenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4,6-Trichlorophenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4-D	0	U		2	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4-Dichlorophenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4-Dimethylphenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4-Dinitrophenol	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,4-Dinitrotoluene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,6-Dichlorophenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2,6-Dinitrotoluene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Acetylaminofluorene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Chloronaphthalene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Chlorophenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Hexanone	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Methyl-5-nitroaniline	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Methylnaphthalene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Methylphenol(o-Cresol)	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Naphthalenamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Nitroaniline	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Nitrophenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	2-Picoline	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	3&4-Methylphenol(m&p Cresol)	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	3,3'-Dichlorobenzidine	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	3,3'-Dimethylbenzidine	0	U		125	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	3-Methylcholanthrene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	3-Nitroaniline	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4,4'-DDD	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4,4'-DDE	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4,4'-DDT	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4,4'-Methylene-bis(2-chloroani	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4,6-Dinitro-2-methylphenol	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4-Aminobiphenyl	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4-Bromophenylphenyl ether	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4-Chloro-3-methylphenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4-Chloroaniline	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4-Chlorophenylphenyl ether	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4-Nitroaniline	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4-Nitrophenol	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	4-Nitroquinoline-n-oxide	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	5-Nitro-o-toluidine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	7,12-Dimethylbenz(a)anthracene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	a,a-Dimethylphenylethylamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Acenaphthene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Acenaphthylene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Acetone	0	U		125	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Acetonitrile	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Acetophenone	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Acrolein	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Acrylonitrile	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Aldrin	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Allyl chloride	0	U		10	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	alpha-BHC	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Aniline	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Anthracene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Antimony, Total	1.6	J		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Aramite	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Arsenic, Total	9.4			5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Atrazine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Barium, Total	14.4			5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzal chloride	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzaldehyde	0	U		50	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzidine	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzo(a)anthracene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzo(a)pyrene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzo(b)fluoranthene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzo(g,h,i)perylene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzo(k)fluoranthene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzoic Acid	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzophenone	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Benzyl alcohol	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Beryllium, Total	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	beta-BHC	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Biphenyl (Diphenyl)	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	bis(2-Chloroethoxy)methane	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	bis(2-Chloroethyl) ether	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	bis(2-Ethylhexyl)phthalate	0	U		30	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Bromobenzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Bromochloromethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Bromoform	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Bromomethane	0	U		10	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Butylbenzylphthalate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Cadmium, Total	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Caprolactam	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Carbazole	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Carbon disulfide	0	U		10	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Carbon tetrachloride	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chlordane (Technical)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chlorobenzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chlorobenzilate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chloroethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chloroform	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chloromethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chloroprene	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chromium, Total	4.2	J		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Chrysene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	cis-1,2-Dichloroethylene	391			5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Cobalt, Total	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Copper, Total	0.45	J		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Cyanide	0	U		0	mg/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	delta-BHC	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Diallate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dibenz(a,h)anthracene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dibenzo(a,e)pyrene	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dibenzofuran	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dibromochloromethane	0	U		5	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dibromomethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dichlorobromomethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dichlorodifluoromethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dieldrin	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Diethylphthalate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dimethoate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dimethylphthalate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Di-n-butylphthalate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Di-n-octylphthalate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Dinoseb	0	U		2	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Diphenyl ether (Phenyl ether)	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Diphenylamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Disulfoton	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Endosulfan I	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Endosulfan II	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Endosulfan sulfate	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Endrin	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Endrin aldehyde	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Ethyl methacrylate	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Ethyl methanesulfonate	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Ethylbenzene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Famphur	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Fluoranthene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Fluorene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	gamma-BHC (Lindane)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Heptachlor	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Heptachlor epoxide	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Hexachloro-1,3-butadiene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Hexachloro-1,3-butadiene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Hexachlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Hexachlorocyclopentadiene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Hexachloroethane	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Hexachlorophene	0	U		500	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Hexachloropropene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Indeno(1,2,3-cd)pyrene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Iodomethane	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Isobutanol	0	U		500	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Isodrin	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Isophorone	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Isosafrole	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Kepone	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Lead, Total	0.071	J		1	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Mercury, Total	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methacrylonitrile	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methapyrilene	0	U		250	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methoxychlor	0	U		0	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methyl ethyl ketone	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methyl isobutenyl ketone	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methyl methacrylate	0	U		10	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methyl methanesulfonate	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methyl parathion	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Methylene Chloride	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Naphthalene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	n-Decane	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Nickel, Total	1	J		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Nitrobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitrosodiethylamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitrosodimethylamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitroso-di-n-butylamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitroso-di-n-propylamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitrosodiphenylamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitrosomethylethylamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitrosomorpholine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitrosopiperidine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	N-Nitrosopyrrolidine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	n-Octadecane	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	O,O,O-Triethylphosphorothioate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	O-Toluidine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Parathion (Ethyl parathion)	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	PCB-1016 (Aroclor 1016)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	P-Dimethylaminoazobenzene	0	U		25	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Pentachlorobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Pentachloroethane	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Pentachloronitrobenzene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Pentachlorophenol	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Phenacetin	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Phenanthrene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Phenol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Phorate	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	p-Phenylenediamine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Pronamide	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Propionitrile	0	U		100	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Pyrene	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Pyridine	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Safrole	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Selenium, Total	5.3			5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Silver, Total	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Styrene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Sulfide	0	U		1	mg/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Sulfotepp (Thiodiphosphoric Ac	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Terpineol	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Tetrachloroethylene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Thallium, Total	0	U		1	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Thionazin	0	U		50	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Tin, Total	0	U		20	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Toluene	2.3	J		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Toxaphene	0	U		0	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	trans-1,4-Dichloro-2-butene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Trichloroethylene	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Trichlorofluoromethane	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Vanadium, Total	34.6			10	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Vinyl acetate	0	U		10	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Vinyl chloride	11.7			5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Xylene (Total)	0	U		5	ug/L
MW-62A	MW-62A-061020	Permanent	Active	6/10/2020	17.6 - 22.6	Zinc, Total	2.1	J		10	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,1,1-Trichloroethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,1,2-Trichloroethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,1-Dichloroethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,1-Dichloroethene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,2,4-Trichlorobenzene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,2-Dibromoethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,2-Dichlorobenzene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,2-Dichloroethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,2-Dichloropropane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,3-Dichlorobenzene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	1,4-Dichlorobenzene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	2-Hexanone	0			5	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Acetone	0			25	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Benzene	0.36	J		1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Bromoform	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Bromomethane	0			2	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Carbon tetrachloride	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Chlorobenzene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Chloroethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Chloroform	0			5	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Chloromethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	cis-1,2-Dichloroethylene	186			1	ug/L

**Appendix B - Historical Groundwater Analytical Data**  
**Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	cis-1,3-Dichloropropylene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Cumene	0.42	J		1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Cyclohexane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Dibromochloromethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Dichlorobromomethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Dichlorodifluoromethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Ethylbenzene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Methyl acetate	0			10	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Methyl ethyl ketone	0			5	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Methyl isobutenyl ketone	0			5	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Methylcyclohexane	0			10	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Methylene Chloride	0			5	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Styrene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Tetrachloroethylene	1.6			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Toluene	1.2			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	trans-1,2-Dichloroethylene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	trans-1,3-Dichloropropylene	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Trichloroethylene	1.1			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Trichlorofluoromethane	0			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Vinyl acetate	0			2	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Vinyl chloride	4.1			1	ug/L
MW-62A	MW-62A-102820	Permanent	Active	10/28/2020	17.6 - 22.6	Xylene (Total)	0			1	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,1,1-Trichloroethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,1,2,2-Tetrachloroethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,1,2-Trichloroethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,1,2-Trichlorotrifluoroethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,1-Dichloroethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,1-Dichloroethene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,2,4-Trichlorobenzene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,2-Dibromo-3-chloropropane	0	U		8	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,2-Dibromoethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,2-Dichlorobenzene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,2-Dichloroethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,2-Dichloropropane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,3-Dichlorobenzene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	1,4-Dichlorobenzene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	2-Hexanone	0	U		20	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Acetone	0	U		100	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Benzene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Bromoform	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Bromomethane	0	U		8	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Carbon tetrachloride	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Chlorobenzene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Chloroethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Chloroform	0	U		20	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Chloromethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	cis-1,2-Dichloroethylene	417			4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	cis-1,3-Dichloropropylene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Cumene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Cyclohexane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Dibromochloromethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Dibromomethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Dichlorobromomethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Dichlorodifluoromethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Ethylbenzene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Methyl acetate	0	U		40	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Methyl ethyl ketone	0	U		20	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Methyl isobutenyl ketone	0	U		20	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Methylcyclohexane	0	U		40	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Methylene Chloride	0	U		20	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	MTBE (Methyl tert-butyl ether)	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Styrene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Tetrachloroethylene	3.9	J		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Toluene	2	J		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	trans-1,2-Dichloroethylene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	trans-1,3-Dichloropropylene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Trichloroethylene	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Trichlorofluoromethane	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Vinyl acetate	0	U		8	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Vinyl chloride	0	U		4	ug/L
MW-62A	MW-62A-040821	Permanent	Active	4/8/2021	17.6 - 22.6	Xylene (Total)	0	U		4	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1,1-Trichloroethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1,2-Trichloroethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1-Dichloroethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1-Dichloroethene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dibromoethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dichlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dichloroethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dichloropropane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,3-Dichlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,4-Dichlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	2-Hexanone	0	U		10	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Acetone	0	U		50	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Benzene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Bromoform	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Bromomethane	0	U	UJ	5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Carbon disulfide	1.6	J		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Chlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Chloroethane	0	U		10	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Chloroform	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Chloromethane	0	U		10	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	cis-1,2-Dichloroethylene	27			5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Cumene	1.5	J		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Cyclohexane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Dibromochloromethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Dichlorobromomethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Dichlorodifluoromethane	0	U		10	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Ethylbenzene	0	U	UJ	5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	m & p-Xylenes	0	U	UJ	5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methyl acetate	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methyl ethyl ketone	0	U		50	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methylcyclohexane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methylene chloride	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	o-Xylene	0	U	UJ	5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Styrene	0	U	UJ	5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Tetrachloroethylene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Toluene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Trichloroethylene	3.8	J		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Trichlorofluoromethane	0	U		5	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Trichlorotrifluoroethane	0	U		10	ug/L
MW-62B	MW-62B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Vinyl chloride	0	U		2	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,1,1-Trichloroethane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,1,2-Trichloroethane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,1-Dichloroethane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,1-Dichloroethene	0.89	J		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,2-Dibromoethane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,2-Dichlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,2-Dichloroethane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,2-Dichloropropane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,3-Dichlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	1,4-Dichlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	2-Hexanone	0	U	UJ	10	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Acetone	4.4	J	J	50	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Benzene	0.46	J		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Bromoform	0	U	UJ	5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Bromomethane	0	U	UJ	5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Carbon disulfide	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Chlorobenzene	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Chloroethane	0	U		10	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Chloroform	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Chloromethane	0	U		10	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	cis-1,2-Dichloroethylene	240			50	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Cumene	5.9			5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Cyclohexane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Dibromochloromethane	0	U	UJ	5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Dichlorobromomethane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Dichlorodifluoromethane	0	U		10	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Ethylbenzene	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	m & p-Xylenes	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Methyl acetate	0	U	UJ	5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Methyl ethyl ketone	0	U		50	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Methyl isobutenyl ketone	0	U		10	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Methylcyclohexane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Methylene chloride	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	o-Xylene	0.27	J		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Styrene	0	U	UJ	5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Tetrachloroethylene	3.8	J		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Toluene	0.44	J		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Trichloroethylene	170			5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Trichlorofluoromethane	0	U		5	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Trichlorotrifluoroethane	0	U		10	ug/L
MW-62B	MW-62B-061417	Permanent	Active	6/14/2017	27.7 - 32.7	Vinyl chloride	0.71	J		2	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1-Dichloroethene	1.6			1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dibromoethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Acetone	7.9			5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Bromomethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Carbon disulfide	0	U		5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Chloroform	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	cis-1,2-Dichloroethylene	276			5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Cumene	9.8			1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Cyclohexane	0	U		5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Dichlorobromomethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	m & p-Xylenes	0	U		2	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methyl acetate	0	U		5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methylcyclohexane	0	U		5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methylene Chloride	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	o-Xylene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Tetrachloroethylene	209			5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Trichloroethylene	423			5	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-62B	MW-62B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1-Dichloroethene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dibromoethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Acetone	0	U		25	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Bromodichloromethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Bromomethane	0	U		2	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Carbon disulfide	0	U		10	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Chloroform	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	cis-1,2-Dichloroethylene	168			10	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Cumene	0	U		10	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Cyclohexane	0	U		10	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	m & p-Xylenes	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methyl acetate	0	U		10	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methylcyclohexane	0	U		10	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methylene Chloride	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	o-Xylene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Tetrachloroethylene	8			1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Trichloroethylene	146			1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-62B	MW-62B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1-Dichloroethene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dibromoethane	0	U		2	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Acetone	0	U		25	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Bromomethane	0	U		2	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Carbon disulfide	0	U		10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Chloroform	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	cis-1,2-Dichloroethylene	453			10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Cumene	0	U		10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Cyclohexane	0	U		10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Dichlorobromomethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	m & p-Xylenes	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methyl acetate	0	U		10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methylcyclohexane	0	U		10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methylene Chloride	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	o-Xylene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Tetrachloroethylene	42.6			1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Trichloroethylene	235			10	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-62B	MW-62B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data**  
**Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1-Dichloroethene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dibromoethane	0	U		2	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Acetone	0	U		25	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Bromomethane	0	U		2	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Carbon disulfide	0	U		10	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Chloroform	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	cis-1,2-Dichloroethylene	312			10	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Cumene	0	U		10	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Cyclohexane	0	U		10	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Dichlorobromomethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	m & p-Xylenes	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methyl acetate	0	U		10	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methylcyclohexane	0	U		10	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methylene Chloride	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	o-Xylene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Tetrachloroethylene	6.3			1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Trichloroethylene	124			1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-62B	MW-62B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1,1-Trichloroethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1,2-Trichloroethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1,2-Trichlorotrifluoroethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1-Dichloroethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1-Dichloroethene	1.7	J		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dibromoethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dichlorobenzene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dichloroethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dichloropropane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,3-Dichlorobenzene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,4-Dichlorobenzene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	2-Hexanone	0	U		12	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Acetone	0	U		62	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Benzene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Bromoform	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Bromomethane	0	U		5	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Carbon tetrachloride	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Chlorobenzene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Chloroethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Chloroform	0	U		12	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Chloromethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	cis-1,2-Dichloroethylene	439			2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Cumene	5.1			2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Cyclohexane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Dibromochloromethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Dibromomethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Dichlorobromomethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Dichlorodifluoromethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Ethylbenzene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methyl acetate	0	U		25	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methyl ethyl ketone	0	U		12	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methyl isobutenyl ketone	0	U		12	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methylcyclohexane	0	U		25	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methylene Chloride	0	U		12	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Styrene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Tetrachloroethylene	2.8			2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Toluene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Trichloroethylene	194			2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Trichlorofluoromethane	0	U		2	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Vinyl acetate	0	U		5	ug/L
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Vinyl chloride	0	U		2	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-62B	MW-62B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Xylene (Total)	0	U		2	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,1,1-Trichloroethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,1,2-Trichloroethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,1-Dichloroethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,1-Dichloroethene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,2-Dibromoethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,2-Dichlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,2-Dichloroethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,2-Dichloropropane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,3-Dichlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	1,4-Dichlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	2-Hexanone	0	U		10	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Acetone	7.8	J		50	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Benzene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Bromoform	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Bromomethane	0	U	UJ	5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Carbon disulfide	3.6	J		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Carbon tetrachloride	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Chlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Chloroethane	0	U		10	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Chloroform	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Chloromethane	0	U		10	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	cis-1,2-Dichloroethylene	100			5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Cumene	1.9	J		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Cyclohexane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Dibromochloromethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Dichlorobromomethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Dichlorodifluoromethane	0	U		10	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Ethylbenzene	0	U	UJ	5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	m & p-Xylenes	2.3	J	J	5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Methyl acetate	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Methyl ethyl ketone	0	U		50	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Methyl isobutenyl ketone	0	U		10	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Methylcyclohexane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Methylene chloride	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	o-Xylene	0	U	UJ	5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Styrene	0	U	UJ	5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Tetrachloroethylene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Toluene	1.8	J		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Trichloroethylene	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Trichlorofluoromethane	0	U		5	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Trichlorotrifluoroethane	0	U		10	ug/L
MW-63A	MW-63A-032517	Permanent	Active	3/25/2017	18.06 - 23.06	Vinyl chloride	2.7			2	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,1,1-Trichloroethane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,1,2-Trichloroethane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,1-Dichloroethane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,1-Dichloroethene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,2-Dibromoethane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,2-Dichlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,2-Dichloroethane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,2-Dichloropropane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,3-Dichlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	1,4-Dichlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	2-Hexanone	0	U	UJ	10	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Acetone	9.9	J	J	50	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Benzene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Bromoform	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Bromomethane	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Carbon disulfide	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Chlorobenzene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Chloroethane	0	U		10	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Chloroform	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Chloromethane	0	U		10	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	cis-1,2-Dichloroethylene	130			5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Cumene	0.82	J		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Cyclohexane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Dibromochloromethane	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Dichlorobromomethane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Dichlorodifluoromethane	0	U		10	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Ethylbenzene	0.27	J		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	m & p-Xylenes	0.7	J		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Methyl acetate	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Methyl ethyl ketone	0	U		50	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Methyl isobutenyl ketone	0	U		10	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Methylcyclohexane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Methylene chloride	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	o-Xylene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Styrene	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Toluene	2.2	J		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Trichloroethylene	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Trichlorofluoromethane	0	U		5	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Trichlorotrifluoroethane	0	U		10	ug/L
MW-63A	MW-63A-061417	Permanent	Active	6/14/2017	18.06 - 23.06	Vinyl chloride	3.8			2	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,1-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,1-Dichloroethene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,2-Dibromoethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,2-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,2-Dichloropropane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	2-Hexanone	0	U		5	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Acetone	5.3			5	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Benzene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Bromoform	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Bromomethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Carbon disulfide	0	U		5	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Carbon tetrachloride	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Chlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Chloroethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Chloroform	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Chloromethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	cis-1,2-Dichloroethylene	146			1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Cumene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Cyclohexane	0	U		5	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Dibromochloromethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Dichlorobromomethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Dichlorodifluoromethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Ethylbenzene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	m & p-Xylenes	0	U		2	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Methyl acetate	0	U		5	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Methyl ethyl ketone	0	U		5	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Methylcyclohexane	0	U		5	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Methylene Chloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	o-Xylene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Styrene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Tetrachloroethylene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Toluene	1.7			1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Trichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Trichlorofluoromethane	0	U		1	ug/L
MW-63A	MW-63A-093017	Permanent	Active	9/30/2017	18.06 - 23.06	Vinyl chloride	4.9			1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,1-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,1-Dichloroethene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,2-Dibromoethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,2-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,2-Dichloropropane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	2-Hexanone	0	U		5	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Acetone	0	U		5	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Benzene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Bromoform	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Bromomethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Carbon disulfide	0	U		5	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Carbon tetrachloride	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Chlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Chloroethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Chloroform	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Chloromethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	cis-1,2-Dichloroethylene	19.5			1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Cumene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Cyclohexane	0	U		5	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Dibromochloromethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Dichlorobromomethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Dichlorodifluoromethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Ethylbenzene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	m & p-Xylenes	0	U		2	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Methyl acetate	0	U		5	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Methyl ethyl ketone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Methylcyclohexane	0	U		5	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Methylene Chloride	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	o-Xylene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Styrene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Tetrachloroethylene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Toluene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Trichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Trichlorofluoromethane	0	U		1	ug/L
MW-63A	MW-63A-120117	Permanent	Active	12/1/2017	18.06 - 23.06	Vinyl chloride	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,1-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,1-Dichloroethene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,2-Dibromoethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,2-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,2-Dichloropropane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	2-Hexanone	0	U		5	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Acetone	0	U		25	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Benzene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Bromodichloromethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Bromoform	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Bromomethane	0	U		2	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Carbon disulfide	0	U		10	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Carbon tetrachloride	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Chlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Chloroethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Chloroform	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Chloromethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	cis-1,2-Dichloroethylene	211			10	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Cumene	0	U		10	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Cyclohexane	0	U		10	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Dibromochloromethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Dichlorodifluoromethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Ethylbenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	m & p-Xylenes	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Methyl acetate	0	U		10	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Methyl ethyl ketone	0	U		5	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Methylcyclohexane	0	U		10	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Methylene Chloride	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	o-Xylene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Styrene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Tetrachloroethylene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Toluene	1.6			1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Trichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Trichlorofluoromethane	0	U		1	ug/L
MW-63A	MW-63A-022418	Permanent	Active	2/24/2018	18.06 - 23.06	Vinyl chloride	6.8			1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,1-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,1-Dichloroethene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,2-Dibromoethane	0	U		2	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,2-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,2-Dichloropropane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	2-Hexanone	0	U		5	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Acetone	0	U		25	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Benzene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Bromoform	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Bromomethane	0	U		2	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Carbon disulfide	0	U		10	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Carbon tetrachloride	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Chlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Chloroethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Chloroform	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Chloromethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	cis-1,2-Dichloroethylene	248			10	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Cumene	0	U		10	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Cyclohexane	0	U		10	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Dibromochloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Dichlorobromomethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Dichlorodifluoromethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Ethylbenzene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	m & p-Xylenes	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Methyl acetate	0	U		10	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Methyl ethyl ketone	0	U		5	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Methylcyclohexane	0	U		10	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Methylene Chloride	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	o-Xylene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Styrene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Tetrachloroethylene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Toluene	2.1			1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Trichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Trichlorofluoromethane	0	U		1	ug/L
MW-63A	MW-63A-051118	Permanent	Active	5/11/2018	18.06 - 23.06	Vinyl chloride	8.7		J	1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,1-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,1-Dichloroethene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,2-Dibromoethane	0	U		2	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,2-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,2-Dichloropropane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	2-Hexanone	0	U		5	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Acetone	0	U		25	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Benzene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Bromoform	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Bromomethane	0	U		2	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Carbon disulfide	0	U		10	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Carbon tetrachloride	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Chlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Chloroethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Chloroform	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Chloromethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	cis-1,2-Dichloroethylene	335			10	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Cumene	0	U		10	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Cyclohexane	0	U		10	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Dibromochloromethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Dichlorobromomethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Dichlorodifluoromethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Ethylbenzene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	m & p-Xylenes	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Methyl acetate	0	U		10	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Methyl ethyl ketone	0	U		5	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Methylcyclohexane	0	U		10	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Methylene Chloride	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	o-Xylene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Styrene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Tetrachloroethylene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Toluene	1.1			1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Trichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Trichlorofluoromethane	0	U		1	ug/L
MW-63A	MW-63A-080418	Permanent	Active	8/4/2018	18.06 - 23.06	Vinyl chloride	7			1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,1-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,1-Dichloroethene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,2-Dibromoethane	0	U		2	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,2-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,2-Dichloropropane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	2-Hexanone	0	U		5	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Acetone	0	U		25	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Benzene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Bromoform	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Bromomethane	0	U		2	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Carbon disulfide	0	U		10	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Carbon tetrachloride	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Chlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Chloroethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Chloroform	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Chloromethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	cis-1,2-Dichloroethylene	633			10	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Cumene	0	U		10	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Cyclohexane	0	U		10	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Dibromochloromethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Dichlorobromomethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Dichlorodifluoromethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Ethylbenzene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	m & p-Xylenes	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Methyl acetate	0	U		10	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Methyl ethyl ketone	0	U		5	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Methylcyclohexane	0	U		10	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Methylene Chloride	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	o-Xylene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Styrene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Tetrachloroethylene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Toluene	4			1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	trans-1,2-Dichloroethylene	1.9			1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Trichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Trichlorofluoromethane	0	U		1	ug/L
MW-63A	MW-63A-042619	Permanent	Active	4/26/2019	18.06 - 23.06	Vinyl chloride	10.1			1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,1-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,1-Dichloroethene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,2-Dibromoethane	0	U		2	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,2-Dichloroethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,2-Dichloropropane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	2-Hexanone	0	U		5	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Acetone	0	U		25	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Benzene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Bromoform	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Bromomethane	0	U		2	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Carbon disulfide	0	U		10	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Carbon tetrachloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Chlorobenzene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Chloroethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Chloroform	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Chloromethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	cis-1,2-Dichloroethylene	220			10	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Cumene	0	U		10	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Cyclohexane	0	U		10	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Dibromochloromethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Dichlorobromomethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Dichlorodifluoromethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Ethylbenzene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	m & p-Xylenes	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Methyl acetate	0	U		10	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Methyl ethyl ketone	0	U		5	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Methylcyclohexane	0	U		10	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Methylene Chloride	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	o-Xylene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Styrene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Tetrachloroethylene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Toluene	3.1			1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Trichloroethylene	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Trichlorofluoromethane	0	U		1	ug/L
MW-63A	MW-63A-112319	Permanent	Active	11/23/2019	18.06 - 23.06	Vinyl chloride	3.5			1	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,1,1-Trichloroethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,1,1-Trichloroethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,1,2-Trichloroethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,1,2-Trichloroethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,1-Dichloroethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,1-Dichloroethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,1-Dichloroethene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,1-Dichloroethene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		50	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dibromoethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dibromoethane	0	U		10	ug/L

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Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dichlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dichlorobenzene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dichloroethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dichloroethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dichloropropane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,2-Dichloropropane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,3-Dichlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,3-Dichlorobenzene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	1,4-Dichlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	1,4-Dichlorobenzene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	2-Hexanone	0	U		10	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	2-Hexanone	0	U		50	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Acetone	0	U		50	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Acetone	0	U		250	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Benzene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Benzene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Bromoform	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Bromoform	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Bromomethane	0	U		4	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Bromomethane	0	U		20	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Carbon disulfide	0	U		4	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Carbon disulfide	0	U		20	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Carbon tetrachloride	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Carbon tetrachloride	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Chlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Chlorobenzene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Chloroethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Chloroethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Chloroform	0	U		10	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Chloroform	0	U		50	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Chloromethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Chloromethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	cis-1,2-Dichloroethylene	201			2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	cis-1,2-Dichloroethylene	217			10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Cumene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Cumene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Cyclohexane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Cyclohexane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Dibromochloromethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Dibromochloromethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Dichlorobromomethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Dichlorobromomethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Dichlorodifluoromethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Dichlorodifluoromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Ethylbenzene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Ethylbenzene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	m & p-Xylenes	0	U		4	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	m & p-Xylenes	0	U		20	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Methyl acetate	0	U		20	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Methyl acetate	0	U		100	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Methyl ethyl ketone	0	U		10	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Methyl ethyl ketone	0	U		50	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Methyl isobutenyl ketone	0	U		10	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Methyl isobutenyl ketone	0	U		50	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Methylcyclohexane	0	U		20	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Methylcyclohexane	0	U		100	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Methylene Chloride	0	U		10	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Methylene Chloride	0	U		50	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	o-Xylene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	o-Xylene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Styrene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Styrene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Tetrachloroethylene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Tetrachloroethylene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Toluene	3			2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Toluene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Trichloroethylene	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Trichloroethylene	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Trichlorofluoromethane	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Trichlorofluoromethane	0	U		10	ug/L
MW-63A	MW-63A-042920_DUP	Permanent	Active	4/29/2020	18.06 - 23.06	Vinyl chloride	0	U		2	ug/L
MW-63A	MW-63A-042920	Permanent	Active	4/29/2020	18.06 - 23.06	Vinyl chloride	0	U		10	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,1,1-Trichloroethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,1,2-Trichloroethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,1-Dichloroethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,1-Dichloroethene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,2,4-Trichlorobenzene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,2-Dibromoethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,2-Dichlorobenzene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,2-Dichloroethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,2-Dichloropropane	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,3-Dichlorobenzene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	1,4-Dichlorobenzene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	2-Hexanone	0			5	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Acetone	0			25	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Benzene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Bromoform	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Bromomethane	0			2	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Carbon tetrachloride	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Chlorobenzene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Chloroethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Chloroform	0			5	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Chloromethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	cis-1,2-Dichloroethylene	59.5			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	cis-1,3-Dichloropropylene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Cumene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Cyclohexane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Dibromochloromethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Dichlorobromomethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Dichlorodifluoromethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Ethylbenzene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Methyl acetate	0			10	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Methyl ethyl ketone	0			5	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Methyl isobutenyl ketone	0			5	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Methylcyclohexane	0			10	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Methylene Chloride	0			5	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Styrene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Tetrachloroethylene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Toluene	0.91	J		1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	trans-1,2-Dichloroethylene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	trans-1,3-Dichloropropylene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Trichloroethylene	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Trichlorofluoromethane	0			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Vinyl acetate	0			2	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Vinyl chloride	1.5			1	ug/L
MW-63A	MW-63A-102820	Permanent	Active	10/28/2020	18.06 - 23.06	Xylene (Total)	0			1	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,1,1-Trichloroethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,1,1-Trichloroethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,1,2,2-Tetrachloroethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,1,2-Trichloroethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,1,2-Trichloroethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,1,2-Trichlorotrifluoroethane	0	U		4	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,1-Dichloroethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,1-Dichloroethane	0	U		2	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,1-Dichloroethene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,1-Dichloroethene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,2,4-Trichlorobenzene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dibromo-3-chloropropane	0	U		8	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dibromoethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dibromoethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dichlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dichlorobenzene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dichloroethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dichloroethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dichloropropane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,2-Dichloropropane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,3-Dichlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,3-Dichlorobenzene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	1,4-Dichlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	1,4-Dichlorobenzene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	2-Hexanone	0	U		12	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	2-Hexanone	0	U		20	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Acetone	0	U		62	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Acetone	0	U		100	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Benzene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Benzene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Bromoform	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Bromoform	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Bromomethane	0	U		5	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Bromomethane	0	U		8	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Carbon tetrachloride	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Carbon tetrachloride	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Chlorobenzene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Chlorobenzene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Chloroethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Chloroethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Chloroform	0	U		12	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Chloroform	0	U		20	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Chloromethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Chloromethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	cis-1,2-Dichloroethylene	417			2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	cis-1,2-Dichloroethylene	368			4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	cis-1,3-Dichloropropylene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Cumene	1.2	J		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Cumene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Cyclohexane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Cyclohexane	0	U		4	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Dibromochloromethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Dibromochloromethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Dibromomethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Dibromomethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Dichlorobromomethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Dichlorobromomethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Dichlorodifluoromethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Dichlorodifluoromethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Ethylbenzene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Ethylbenzene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Methyl acetate	0	U		25	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Methyl acetate	0	U		40	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Methyl ethyl ketone	0	U		12	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Methyl ethyl ketone	0	U		20	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Methyl isobutenyl ketone	0	U		12	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Methyl isobutenyl ketone	0	U		20	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Methylcyclohexane	0	U		25	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Methylcyclohexane	0	U		40	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Methylene Chloride	0	U		12	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Methylene Chloride	0	U		20	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Styrene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Styrene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Tetrachloroethylene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Tetrachloroethylene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Toluene	5			2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Toluene	4.1			4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	trans-1,2-Dichloroethylene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	trans-1,3-Dichloropropylene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Trichloroethylene	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Trichloroethylene	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Trichlorofluoromethane	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Trichlorofluoromethane	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Vinyl acetate	0	U		5	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Vinyl acetate	0	U		8	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Vinyl chloride	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Vinyl chloride	0	U		4	ug/L
MW-63A	MW-63A-040821_DUP	Permanent	Active	4/8/2021	18.06 - 23.06	Xylene (Total)	0	U		2	ug/L
MW-63A	MW-63A-040821	Permanent	Active	4/8/2021	18.06 - 23.06	Xylene (Total)	0	U		4	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,1,1-Trichloroethane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,1,2-Trichloroethane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,1-Dichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,1-Dichloroethene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,2-Dibromoethane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,2-Dichlorobenzene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,2-Dichloroethane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,2-Dichloropropane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,3-Dichlorobenzene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	1,4-Dichlorobenzene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	2-Hexanone	0	U		10	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Acetone	6.3	J		50	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Benzene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Bromoform	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Bromomethane	0	U	UJ	5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Carbon disulfide	4.3	J		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Carbon tetrachloride	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Chlorobenzene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Chloroethane	0	U		10	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Chloroform	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Chloromethane	0	U		10	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Cumene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Cyclohexane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Dibromochloromethane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Dichlorobromomethane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Dichlorodifluoromethane	0	U		10	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Ethylbenzene	0	U	UJ	5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	m & p-Xylenes	0	U	UJ	5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Methyl acetate	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Methyl ethyl ketone	0	U		50	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Methyl isobutenyl ketone	0	U		10	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Methylcyclohexane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Methylene chloride	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	o-Xylene	0	U	UJ	5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Styrene	0	U	UJ	5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Tetrachloroethylene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Toluene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Trichloroethylene	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Trichlorofluoromethane	0	U		5	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Trichlorotrifluoroethane	0	U		10	ug/L
MW-63B	MW-63B-032517	Permanent	Active	3/25/2017	27.88 - 32.88	Vinyl chloride	0	U		2	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,1-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,1-Dichloroethene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,2-Dibromoethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,2-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,2-Dichloropropane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	2-Hexanone	0	U		5	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Acetone	6.7			5	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Benzene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Bromoform	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Bromomethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Carbon disulfide	0	U		5	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Carbon tetrachloride	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Chlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Chloroethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Chloroform	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Chloromethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	cis-1,2-Dichloroethylene	8.9			1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Cumene	2.4			1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Cyclohexane	0	U		5	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Dibromochloromethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Dichlorobromomethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Ethylbenzene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	m & p-Xylenes	0	U		2	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Methyl acetate	0	U		5	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Methyl ethyl ketone	0	U		5	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Methylcyclohexane	0	U		5	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Methylene Chloride	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	o-Xylene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Styrene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Tetrachloroethylene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Toluene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Trichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Trichlorofluoromethane	0	U		1	ug/L
MW-63B	MW-63B-093017	Permanent	Active	9/30/2017	27.88 - 32.88	Vinyl chloride	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,1-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,1-Dichloroethene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,2-Dibromoethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,2-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,2-Dichloropropane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	2-Hexanone	0	U		5	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Acetone	0	U		25	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Benzene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Bromodichloromethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Bromoform	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Bromomethane	0	U		2	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Carbon disulfide	0	U		10	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Carbon tetrachloride	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Chlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Chloroethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Chloroform	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Chloromethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	cis-1,2-Dichloroethylene	5			1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Cumene	0	U		10	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Cyclohexane	0	U		10	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Dibromochloromethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Ethylbenzene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	m & p-Xylenes	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Methyl acetate	0	U		10	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Methyl ethyl ketone	0	U		5	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Methylcyclohexane	0	U		10	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Methylene Chloride	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	o-Xylene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Styrene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Tetrachloroethylene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Toluene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Trichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Trichlorofluoromethane	0	U		1	ug/L
MW-63B	MW-63B-022418	Permanent	Active	2/24/2018	27.88 - 32.88	Vinyl chloride	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,1-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,1-Dichloroethene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,2-Dibromoethane	0	U		2	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,2-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,2-Dichloropropane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	2-Hexanone	0	U		5	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Acetone	0	U		25	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Benzene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Bromoform	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Bromomethane	0	U		2	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Carbon disulfide	0	U		10	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Carbon tetrachloride	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Chlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Chloroethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Chloroform	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Chloromethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	cis-1,2-Dichloroethylene	30.6			1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Cumene	0	U		10	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Cyclohexane	0	U		10	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Dibromochloromethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Dichlorobromomethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Ethylbenzene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	m & p-Xylenes	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Methyl acetate	0	U		10	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Methyl ethyl ketone	0	U		5	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Methylcyclohexane	0	U		10	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Methylene Chloride	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	o-Xylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data**  
**Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Styrene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Tetrachloroethylene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Toluene	1.3			1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Trichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Trichlorofluoromethane	0	U		1	ug/L
MW-63B	MW-63B-080418	Permanent	Active	8/4/2018	27.88 - 32.88	Vinyl chloride	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,1-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,1-Dichloroethene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,2-Dibromoethane	0	U		2	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,2-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,2-Dichloropropane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	2-Hexanone	0	U		5	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Acetone	28.4			25	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Benzene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Bromoform	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Bromomethane	0	U		2	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Carbon disulfide	0	U		10	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Carbon tetrachloride	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Chlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Chloroethane	3.2			1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Chloroform	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Chloromethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	cis-1,2-Dichloroethylene	75.1			1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Cumene	0	U		10	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Cyclohexane	0	U		10	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Dibromochloromethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Dichlorobromomethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Ethylbenzene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	m & p-Xylenes	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Methyl acetate	0	U		10	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Methyl ethyl ketone	0	U		5	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Methylcyclohexane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Methylene Chloride	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	o-Xylene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Styrene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Tetrachloroethylene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Toluene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Trichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Trichlorofluoromethane	0	U		1	ug/L
MW-63B	MW-63B-112319	Permanent	Active	11/23/2019	27.88 - 32.88	Vinyl chloride	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,1-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,1-Dichloroethene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,2-Dibromoethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,2-Dichloroethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,2-Dichloropropane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	2-Hexanone	0	U		5	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Acetone	0	U		25	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Benzene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Bromoform	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Bromomethane	0	U		2	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Carbon tetrachloride	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Chlorobenzene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Chloroethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Chloroform	0	U		5	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Chloromethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	cis-1,2-Dichloroethylene	125			1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Cumene	1.8			1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Cyclohexane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Dibromochloromethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Dibromomethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Dichlorobromomethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Ethylbenzene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Methyl acetate	0	U		10	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Methyl ethyl ketone	0	U		5	ug/L

Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Methylcyclohexane	0	U		10	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Methylene Chloride	0	U		5	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Styrene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Tetrachloroethylene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Toluene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Trichloroethylene	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Trichlorofluoromethane	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Vinyl acetate	0	U		2	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Vinyl chloride	0	U		1	ug/L
MW-63B	MW-63B-040821	Permanent	Active	4/8/2021	27.88 - 32.88	Xylene (Total)	0	U		1	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,1,1-Trichloroethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,1,2-Trichloroethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,1-Dichloroethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,1-Dichloroethene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,2-Dibromoethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,2-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,2-Dichloroethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,2-Dichloropropane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,3-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	1,4-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	2-Hexanone	0	U		10	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Acetone	6	J		50	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Benzene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Bromoform	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Bromomethane	0	U	UJ	5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Carbon disulfide	3.2	J		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Carbon tetrachloride	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Chlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Chloroethane	0	U		10	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Chloroform	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Chloromethane	0	U		10	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	cis-1,2-Dichloroethylene	130			5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Cumene	1.4	J		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Cyclohexane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Dibromochloromethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Dichlorobromomethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Dichlorodifluoromethane	0	U		10	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Ethylbenzene	0	U	UJ	5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	m & p-Xylenes	0	U	UJ	5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Methyl acetate	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Methyl ethyl ketone	0	U		50	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Methyl isobutenyl ketone	0	U		10	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Methylcyclohexane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Methylene chloride	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	o-Xylene	0	U	UJ	5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Styrene	0	U	UJ	5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Tetrachloroethylene	1.3	J		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Toluene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Trichloroethylene	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Trichlorofluoromethane	0	U		5	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Trichlorotrifluoroethane	0	U		10	ug/L
MW-64A	MW-64A-032517	Permanent	Active	3/25/2017	18 - 23	Vinyl chloride	1.3	J		2	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,1,1-Trichloroethane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,1,2-Trichloroethane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,1-Dichloroethane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,1-Dichloroethene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,2-Dibromoethane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,2-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,2-Dichloroethane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,2-Dichloropropane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,3-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	1,4-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	2-Hexanone	0	U	UJ	10	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Acetone	0	U	UJ	50	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Benzene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Bromoform	0	U	UJ	5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Bromomethane	0	U	UJ	5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Carbon disulfide	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Chlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Chloroethane	0	U		10	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Chloroform	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Chloromethane	0	U		10	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	cis-1,2-Dichloroethylene	57			5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Cumene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Cyclohexane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Dibromochloromethane	0	U	UJ	5	ug/L

Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Dichlorobromomethane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Dichlorodifluoromethane	0	U		10	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Ethylbenzene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	m & p-Xylenes	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Methyl acetate	0	U	UJ	5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Methyl ethyl ketone	0	U		50	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Methyl isobutenyl ketone	0	U		10	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Methylcyclohexane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Methylene chloride	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	o-Xylene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Styrene	0	U	UJ	5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Tetrachloroethylene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Toluene	0.43	J		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Trichloroethylene	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Trichlorofluoromethane	0	U		5	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Trichlorotrifluoroethane	0	U		10	ug/L
MW-64A	MW-64A-061417	Permanent	Active	6/14/2017	18 - 23	Vinyl chloride	0	U		2	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,1-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,1-Dichloroethene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,2-Dibromoethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,2-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,2-Dichloropropane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	2-Hexanone	0	U		5	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Acetone	0	U		5	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Benzene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Bromoform	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Bromomethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Carbon disulfide	0	U		5	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Carbon tetrachloride	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Chlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Chloroethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Chloroform	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Chloromethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	cis-1,2-Dichloroethylene	79.1			1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Cumene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Cyclohexane	0	U		5	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Dibromochloromethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Dichlorobromomethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Dichlorodifluoromethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Ethylbenzene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	m & p-Xylenes	0	U		2	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Methyl acetate	0	U		5	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Methyl ethyl ketone	0	U		5	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Methylcyclohexane	0	U		5	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Methylene Chloride	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	o-Xylene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Styrene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Tetrachloroethylene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Toluene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Trichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Trichlorofluoromethane	0	U		1	ug/L
MW-64A	MW-64A-093017	Permanent	Active	9/30/2017	18 - 23	Vinyl chloride	1.3			1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,1-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,1-Dichloroethene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,2-Dibromoethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,2-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,2-Dichloropropane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	2-Hexanone	0	U		5	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Acetone	0	U		25	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Benzene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Bromodichloromethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Bromoform	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Bromomethane	0	U		2	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Carbon disulfide	0	U		10	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Carbon tetrachloride	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Chlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Chloroethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Chloroform	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Chloromethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	cis-1,2-Dichloroethylene	89.8			1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Cumene	0	U		10	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Cyclohexane	0	U		10	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Dibromochloromethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Dichlorodifluoromethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Ethylbenzene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	m & p-Xylenes	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Methyl acetate	0	U		10	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Methyl ethyl ketone	0	U		5	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Methylcyclohexane	0	U		10	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Methylene Chloride	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	o-Xylene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Styrene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Tetrachloroethylene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Toluene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Trichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Trichlorofluoromethane	0	U		1	ug/L
MW-64A	MW-64A-022418	Permanent	Active	2/24/2018	18 - 23	Vinyl chloride	1.7			1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,1-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,1-Dichloroethene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,2-Dibromoethane	0	U		2	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,2-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,2-Dichloropropane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	2-Hexanone	0	U		5	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Acetone	0	U		25	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Benzene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Bromoform	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Bromomethane	0	U		2	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Carbon disulfide	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Carbon tetrachloride	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Chlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Chloroethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Chloroform	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Chloromethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	cis-1,2-Dichloroethylene	44.3		J	1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Cumene	0	U		10	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Cyclohexane	0	U		10	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Dibromochloromethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Dichlorobromomethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Dichlorodifluoromethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Ethylbenzene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	m & p-Xylenes	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Methyl acetate	0	U		10	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Methyl ethyl ketone	0	U		5	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Methylcyclohexane	0	U		10	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Methylene Chloride	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	o-Xylene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Styrene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Tetrachloroethylene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Toluene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Trichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Trichlorofluoromethane	0	U		1	ug/L
MW-64A	MW-64A-051118	Permanent	Active	5/11/2018	18 - 23	Vinyl chloride	1.1		J	1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,1-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,1-Dichloroethene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,2-Dibromoethane	0	U		2	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,2-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,2-Dichloropropane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	2-Hexanone	0	U		5	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Acetone	0	U		25	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Benzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Bromoform	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Bromomethane	0	U		2	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Carbon disulfide	0	U		10	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Carbon tetrachloride	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Chlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Chloroethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Chloroform	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Chloromethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	cis-1,2-Dichloroethylene	6.6			1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Cumene	0	U		10	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Cyclohexane	0	U		10	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Dibromochloromethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Dichlorobromomethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Dichlorodifluoromethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Ethylbenzene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	m & p-Xylenes	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Methyl acetate	0	U		10	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Methyl ethyl ketone	0	U		5	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Methylcyclohexane	0	U		10	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Methylene Chloride	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	o-Xylene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Styrene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Tetrachloroethylene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Toluene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Trichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Trichlorofluoromethane	0	U		1	ug/L
MW-64A	MW-64A-080418	Permanent	Active	8/4/2018	18 - 23	Vinyl chloride	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,1-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,1-Dichloroethene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,2-Dibromoethane	0	U		2	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,2-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,2-Dichloropropane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	1,4-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	2-Hexanone	0	U		5	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Acetone	0	U		25	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Benzene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Bromoform	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Bromomethane	0	U		2	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Carbon disulfide	0	U		10	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Carbon tetrachloride	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Chlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Chloroethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Chloroform	0	U		1.5	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Chloromethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Cumene	0	U		10	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Cyclohexane	0	U		10	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Dibromochloromethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Dichlorobromomethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Dichlorodifluoromethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Ethylbenzene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	m & p-Xylenes	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Methyl acetate	0	U		10	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Methyl ethyl ketone	0	U		5	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Methylcyclohexane	0	U		10	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Methylene Chloride	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	o-Xylene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Styrene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Tetrachloroethylene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Toluene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Trichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Trichlorofluoromethane	0	U		1	ug/L
MW-64A	MW-64A-042619	Permanent	Active	4/26/2019	18 - 23	Vinyl chloride	5.4			1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,1-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,1-Dichloroethene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,2-Dibromoethane	0	U		2	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,2-Dichloroethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,2-Dichloropropane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	2-Hexanone	0	U		5	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Acetone	0	U		25	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Benzene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Bromoform	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Bromomethane	0	U		2	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Carbon disulfide	0	U		10	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Carbon tetrachloride	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Chlorobenzene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Chloroethane	16.1		J	1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Chloroform	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Chloromethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	cis-1,2-Dichloroethylene	461		J	10	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Cumene	0	U		10	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Cyclohexane	0	U		10	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Dibromochloromethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Dichlorobromomethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Dichlorodifluoromethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Ethylbenzene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	m & p-Xylenes	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Methyl acetate	0	U		10	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Methyl ethyl ketone	0	U		5	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Methylcyclohexane	0	U		10	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Methylene Chloride	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	o-Xylene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Styrene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Tetrachloroethylene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Toluene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	trans-1,2-Dichloroethylene	1.8		J	1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Trichloroethylene	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Trichlorofluoromethane	0	U		1	ug/L
MW-64A	MW-64A-112319	Permanent	Active	11/23/2019	18 - 23	Vinyl chloride	8.9			1	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,1,1-Trichloroethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,1,2-Trichloroethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,1,2-Trichlorotrifluoroethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,1-Dichloroethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,1-Dichloroethene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,2-Dibromo-3-chloropropane	0	U		12	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,2-Dibromoethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,2-Dichlorobenzene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,2-Dichloroethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,2-Dichloropropane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,3-Dichlorobenzene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	1,4-Dichlorobenzene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	2-Hexanone	0	U		12	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Acetone	0	U		62	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Benzene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Bromoform	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Bromomethane	0	U		5	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Carbon disulfide	0	U		5	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Carbon tetrachloride	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Chlorobenzene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Chloroethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Chloroform	0	U		12	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Chloromethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	cis-1,2-Dichloroethylene	371			2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Cumene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Cyclohexane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Dibromochloromethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Dichlorobromomethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Dichlorodifluoromethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Ethylbenzene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	m & p-Xylenes	0	U		5	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Methyl acetate	0	U		25	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Methyl ethyl ketone	0	U		12	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Methyl isobutenyl ketone	0	U		12	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Methylcyclohexane	0	U		25	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Methylene Chloride	0	U		12	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	o-Xylene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Styrene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Tetrachloroethylene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Toluene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Trichloroethylene	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Trichlorofluoromethane	0	U		2	ug/L
MW-64A	MW-64A-042920	Permanent	Active	4/29/2020	18 - 23	Vinyl chloride	0	U		2	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,1,1-Trichloroethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,1,2-Trichloroethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,1-Dichloroethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,1-Dichloroethene	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,2,4-Trichlorobenzene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,2-Dibromoethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,2-Dichlorobenzene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,2-Dichloroethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,2-Dichloropropane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,3-Dichlorobenzene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	1,4-Dichlorobenzene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	2-Hexanone	0			5	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Acetone	0			25	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Benzene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Bromoform	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Bromomethane	0			2	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Carbon tetrachloride	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Chlorobenzene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Chloroethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Chloroform	0			5	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Chloromethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	cis-1,2-Dichloroethylene	31.6			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	cis-1,3-Dichloropropylene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Cumene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Cyclohexane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Dibromochloromethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Dichlorobromomethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Dichlorodifluoromethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Ethylbenzene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Methyl acetate	0			10	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Methyl ethyl ketone	0			5	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Methyl isobutenyl ketone	0			5	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Methylcyclohexane	0			10	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Methylene Chloride	0			5	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Styrene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Tetrachloroethylene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Toluene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	trans-1,2-Dichloroethylene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	trans-1,3-Dichloropropylene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Trichloroethylene	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Trichlorofluoromethane	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Vinyl acetate	0			2	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Vinyl chloride	0			1	ug/L
MW-64A	MW-64A-102820	Permanent	Active	10/28/2020	18 - 23	Xylene (Total)	0			1	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,1,1-Trichloroethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,1,2-Trichloroethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,1,2-Trichlorotrifluoroethane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,1-Dichloroethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,1-Dichloroethene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,2-Dibromoethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,2-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,2-Dichloroethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,2-Dichloropropane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,3-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	1,4-Dichlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	2-Hexanone	0	U		25	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Acetone	0	U		125	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Benzene	5.6			5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Bromoform	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Bromomethane	0	U		10	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Carbon tetrachloride	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Chlorobenzene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Chloroethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Chloroform	0	U		25	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Chloromethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	cis-1,2-Dichloroethylene	772		J	5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Cumene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Cyclohexane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Dibromochloromethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Dibromomethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Dichlorobromomethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Dichlorodifluoromethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Ethylbenzene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Methyl acetate	0	U		50	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Methyl ethyl ketone	0	U		25	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Methyl isobutenyl ketone	0	U		25	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Methylcyclohexane	0	U		50	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Methylene Chloride	0	U		25	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Styrene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Tetrachloroethylene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Toluene	2.9	J		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Trichloroethylene	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Trichlorofluoromethane	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Vinyl acetate	0	U		10	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Vinyl chloride	0	U		5	ug/L
MW-64A	MW-64A-040821	Permanent	Active	4/8/2021	18 - 23	Xylene (Total)	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,1,1-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,1,2-Trichloroethane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,1-Dichloroethane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,1-Dichloroethene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,2-Dibromoethane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,2-Dichlorobenzene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,2-Dichloroethane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,2-Dichloropropane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,3-Dichlorobenzene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	1,4-Dichlorobenzene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	2-Hexanone	0	U		10	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Acetone	0	U		50	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Benzene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Bromoform	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Bromomethane	0	U	UJ	5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Carbon disulfide	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Carbon tetrachloride	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Chlorobenzene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Chloroethane	0	U		10	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Chloroform	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Chloromethane	0	U		10	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Cumene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Cyclohexane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Dibromochloromethane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Dichlorobromomethane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Dichlorodifluoromethane	0	U		10	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Ethylbenzene	0	U	UJ	5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	m & p-Xylenes	0	U	UJ	5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Methyl acetate	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Methyl ethyl ketone	0	U		50	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Methyl isobutenyl ketone	0	U		10	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Methylcyclohexane	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Methylene chloride	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	o-Xylene	0	U	UJ	5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Styrene	0	U	UJ	5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Tetrachloroethylene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Toluene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Trichloroethylene	0	U		5	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Trichlorofluoromethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Trichlorotrifluoroethane	0	U		10	ug/L
MW-64B	MW-64B-032517	Permanent	Active	3/25/2017	27.8 - 32.8	Vinyl chloride	0	U		2	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,1-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,1-Dichloroethene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,2-Dibromoethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,2-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,2-Dichloropropane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	2-Hexanone	0	U		5	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Acetone	5.4			5	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Benzene	1			1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Bromoform	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Bromomethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Carbon disulfide	0	U		5	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Carbon tetrachloride	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Chlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Chloroethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Chloroform	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Chloromethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	cis-1,2-Dichloroethylene	40.4			1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Cumene	8.9			1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Cyclohexane	0	U		5	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Dibromochloromethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Dichlorobromomethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Dichlorodifluoromethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Ethylbenzene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	m & p-Xylenes	0	U		2	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Methyl acetate	0	U		5	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Methyl ethyl ketone	0	U		5	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Methylcyclohexane	0	U		5	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Methylene Chloride	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	o-Xylene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Styrene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Tetrachloroethylene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Toluene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Trichloroethylene	22.1			1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Trichlorofluoromethane	0	U		1	ug/L
MW-64B	MW-64B-093017	Permanent	Active	9/30/2017	27.8 - 32.8	Vinyl chloride	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,1-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,1-Dichloroethene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,2-Dibromoethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,2-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,2-Dichloropropane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	2-Hexanone	0	U		5	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Acetone	0	U		25	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Benzene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Bromodichloromethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Bromoform	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Bromomethane	0	U		2	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Carbon disulfide	0	U		10	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Carbon tetrachloride	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Chlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Chloroethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Chloroform	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Chloromethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	cis-1,2-Dichloroethylene	16.1			1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Cumene	0	U		10	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Cyclohexane	0	U		10	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Dibromochloromethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Dichlorodifluoromethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Ethylbenzene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	m & p-Xylenes	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Methyl acetate	0	U		10	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Methyl ethyl ketone	0	U		5	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Methylcyclohexane	0	U		10	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Methylene Chloride	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	o-Xylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Styrene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Tetrachloroethylene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Toluene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Trichloroethylene	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Trichlorofluoromethane	0	U		1	ug/L
MW-64B	MW-64B-022418	Permanent	Active	2/24/2018	27.8 - 32.8	Vinyl chloride	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,1-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,1-Dichloroethene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,2-Dibromoethane	0	U		2	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,2-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,2-Dichloropropane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	2-Hexanone	0	U		5	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Acetone	0	U		25	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Benzene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Bromoform	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Bromomethane	0	U		2	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Carbon disulfide	0	U		10	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Carbon tetrachloride	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Chlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Chloroethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Chloroform	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Chloromethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	cis-1,2-Dichloroethylene	37.1			1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Cumene	0	U		10	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Cyclohexane	0	U		10	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Dibromochloromethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Dichlorobromomethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Dichlorodifluoromethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Ethylbenzene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	m & p-Xylenes	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Methyl acetate	0	U		10	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Methyl ethyl ketone	0	U		5	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Methylcyclohexane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Methylene Chloride	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	o-Xylene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Styrene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Tetrachloroethylene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Toluene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Trichloroethylene	8.4			1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Trichlorofluoromethane	0	U		1	ug/L
MW-64B	MW-64B-080418	Permanent	Active	8/4/2018	27.8 - 32.8	Vinyl chloride	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,1-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,1-Dichloroethene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,2-Dibromoethane	0	U		2	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,2-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,2-Dichloropropane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	2-Hexanone	0	U		5	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Acetone	0	U		25	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Benzene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Bromoform	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Bromomethane	0	U		2	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Carbon disulfide	0	U		10	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Carbon tetrachloride	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Chlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Chloroethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Chloroform	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Chloromethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	cis-1,2-Dichloroethylene	15.5			1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Cumene	0	U		10	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Cyclohexane	0	U		10	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Dibromochloromethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Dichlorobromomethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Dichlorodifluoromethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Ethylbenzene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	m & p-Xylenes	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Methyl acetate	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Methyl ethyl ketone	0	U		5	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Methylcyclohexane	0	U		10	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Methylene Chloride	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	o-Xylene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Styrene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Tetrachloroethylene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Toluene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Trichloroethylene	15.9			1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Trichlorofluoromethane	0	U		1	ug/L
MW-64B	MW-64B-112319	Permanent	Active	11/23/2019	27.8 - 32.8	Vinyl chloride	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,1,1-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,1,2-Trichloroethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,1-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,1-Dichloroethene	0.85	J		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,2-Dibromoethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,2-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,2-Dichloroethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,2-Dichloropropane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,3-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	1,4-Dichlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	2-Hexanone	0	U		5	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Acetone	0	U		25	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Benzene	0.7	J		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Bromoform	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Bromomethane	0	U		2	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Carbon tetrachloride	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Chlorobenzene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Chloroethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Chloroform	0	U		5	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Chloromethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	cis-1,2-Dichloroethylene	75.3			1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Cumene	4.7			1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Cyclohexane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Dibromochloromethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Dibromomethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Dichlorobromomethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Dichlorodifluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Ethylbenzene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Methyl acetate	0	U		10	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Methyl ethyl ketone	0	U		5	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Methyl isobutenyl ketone	0	U		5	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Methylcyclohexane	0	U		10	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Methylene Chloride	0	U		5	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Styrene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Tetrachloroethylene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Toluene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Trichloroethylene	71.6			1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Trichlorofluoromethane	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Vinyl acetate	0	U		2	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Vinyl chloride	0	U		1	ug/L
MW-64B	MW-64B-040821	Permanent	Active	4/8/2021	27.8 - 32.8	Xylene (Total)	0	U		1	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,1,1-Trichloroethane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,1,2-Trichloroethane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,1-Dichloroethane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,1-Dichloroethene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U	UJ	50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,2-Dibromoethane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,2-Dichlorobenzene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,2-Dichloroethane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,2-Dichloropropane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,3-Dichlorobenzene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	1,4-Dichlorobenzene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	2-Hexanone	0	U	UJ	100	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Acetone	36	J		500	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Benzene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Bromoform	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Bromomethane	0	U	UJ	50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Carbon disulfide	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Carbon tetrachloride	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Chlorobenzene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Chloroethane	0	U		100	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Chloroform	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Chloromethane	0	U		100	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	cis-1,2-Dichloroethylene	210			50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U	UJ	50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Cumene	14	J		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Cyclohexane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Dibromochloromethane	0	U		50	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Dichlorobromomethane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Dichlorodifluoromethane	0	U		100	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Ethylbenzene	0	U	UJ	50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	m & p-Xylenes	18	J	J	50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Methyl acetate	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Methyl ethyl ketone	0	U	UJ	500	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Methyl isobutenyl ketone	0	U		100	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Methylcyclohexane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Methylene chloride	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	o-Xylene	0	U	UJ	50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Styrene	0	U	UJ	50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Tetrachloroethylene	0	U	UJ	50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Toluene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Trichloroethylene	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Trichlorofluoromethane	0	U		50	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Trichlorotrifluoroethane	0	U		100	ug/L
MW-65A	MW-65A-032517	Permanent	Active	3/25/2017	17.9 - 22.9	Vinyl chloride	0	U		20	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,1,1-Trichloroethane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,1,2-Trichloroethane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,1-Dichloroethane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,1-Dichloroethene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,2-Dibromoethane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,2-Dichlorobenzene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,2-Dichloroethane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,2-Dichloropropane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,3-Dichlorobenzene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	1,4-Dichlorobenzene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	2-Hexanone	0	U		10	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Acetone	37	J		50	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Benzene	0.59	J		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Bromoform	0	U	UJ	5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Bromomethane	0	U	UJ	5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Carbon disulfide	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Chlorobenzene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Chloroethane	0	U		10	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Chloroform	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Chloromethane	0	U		10	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	cis-1,2-Dichloroethylene	190			5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Cumene	2.8	J		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Cyclohexane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Dibromochloromethane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Dichlorobromomethane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Dichlorodifluoromethane	0	U		10	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Ethylbenzene	0.3	J		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	m & p-Xylenes	1.7	J		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Methyl acetate	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Methyl ethyl ketone	0	U		50	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Methyl isobutenyl ketone	0	U		10	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Methylcyclohexane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Methylene chloride	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	o-Xylene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Styrene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Tetrachloroethylene	1.3	J		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Toluene	3.4	J		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Trichloroethylene	4.3	J		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Trichlorofluoromethane	0	U		5	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Trichlorotrifluoroethane	0	U		10	ug/L
MW-65A	MW-65A-061417	Permanent	Active	6/14/2017	17.9 - 22.9	Vinyl chloride	3.3			2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1,1-Trichloroethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1,2-Trichloroethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1-Dichloroethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,1-Dichloroethene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dibromoethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dichloroethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,2-Dichloropropane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,3-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	1,4-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	2-Hexanone	0	U		10	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Acetone	18.6			10	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Acetone	15.4			5	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Benzene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Benzene	1			1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Bromoform	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Bromoform	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Bromomethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Carbon disulfide	0	U		5	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Carbon disulfide	0	U		10	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Carbon tetrachloride	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Chlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Chloroethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Chloroform	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Chloroform	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Chloromethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	cis-1,2-Dichloroethylene	211			2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	cis-1,2-Dichloroethylene	217			2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Cumene	5.1			1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Cumene	4.8			2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Cyclohexane	0	U		5	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Dibromochloromethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Dichlorobromomethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Dichlorodifluoromethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Ethylbenzene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	m & p-Xylenes	0	U		4	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	m & p-Xylenes	3			2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methyl acetate	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methyl acetate	0	U		5	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methyl ethyl ketone	0	U		10	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methyl isobutenyl ketone	0	U		10	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methylcyclohexane	0	U		5	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methylene Chloride	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Methylene Chloride	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	o-Xylene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Styrene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Styrene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Tetrachloroethylene	2.6			1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Tetrachloroethylene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Toluene	4.5			2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Toluene	4.5			1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Trichloroethylene	6			2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Trichloroethylene	9			1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Trichlorofluoromethane	0	U		2	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Vinyl chloride	0	U		1	ug/L
MW-65A	MW-65A-093017	Permanent	Active	9/30/2017	17.9 - 22.9	Vinyl chloride	0	U		2	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,2-Dibromoethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Acetone	14.8			5	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Benzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Bromoform	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Bromomethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Carbon disulfide	0	U		5	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Chloroform	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	cis-1,2-Dichloroethylene	88.4			1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Cumene	1.6			1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Cyclohexane	0	U		5	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	m & p-Xylenes	0	U		2	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Methyl acetate	0	U		5	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Methylcyclohexane	0	U		5	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Methylene Chloride	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Styrene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Toluene	1.3			1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Trichloroethylene	1.5			1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-65A	MW-65A-120117	Permanent	Active	12/1/2017	17.9 - 22.9	Vinyl chloride	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,2-Dibromoethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Acetone	0	U		25	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Benzene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Bromodichloromethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Bromoform	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Carbon disulfide	0	U		10	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Chloroform	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	cis-1,2-Dichloroethylene	220		J	10	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Cumene	0	U		10	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	m & p-Xylenes	6.1			1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Methylene Chloride	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Styrene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Tetrachloroethylene	1			1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Toluene	3.3			1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Trichloroethylene	1.6			1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-65A	MW-65A-022418	Permanent	Active	2/24/2018	17.9 - 22.9	Vinyl chloride	1.2			1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Acetone	31.2			25	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Benzene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Bromoform	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Carbon disulfide	0	U		10	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Chloroform	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	cis-1,2-Dichloroethylene	172			10	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Cumene	0	U		10	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	m & p-Xylenes	1.1			1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Methylene Chloride	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Styrene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Toluene	2.8			1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Trichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-65A	MW-65A-051118	Permanent	Active	5/11/2018	17.9 - 22.9	Vinyl chloride	4		J	1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Acetone	0	U		25	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Benzene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Bromoform	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Carbon disulfide	0	U		10	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Chloroform	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	cis-1,2-Dichloroethylene	89.2			1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Cumene	0	U		10	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	m & p-Xylenes	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Methylene Chloride	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Styrene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Toluene	1.2			1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Trichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-65A	MW-65A-080418	Permanent	Active	8/4/2018	17.9 - 22.9	Vinyl chloride	3.8			1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Acetone	42.5			25	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Benzene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Bromoform	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Carbon disulfide	0	U		10	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Chloroform	0	U	U	1.1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	cis-1,2-Dichloroethylene	223			10	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Cumene	0	U		10	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	m & p-Xylenes	1.6			1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Methylene Chloride	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Styrene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Toluene	2.7			1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Trichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-65A	MW-65A-042619	Permanent	Active	4/26/2019	17.9 - 22.9	Vinyl chloride	1.8			1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Acetone	27.6			25	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Benzene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Bromoform	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Carbon disulfide	0	U		10	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Chloroethane	1.9			1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Chloroform	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	cis-1,2-Dichloroethylene	151			10	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Cumene	0	U		10	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	m & p-Xylenes	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Methylene Chloride	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Styrene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Toluene	1.8			1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Trichloroethylene	0	U		1	ug/L
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-112319	Permanent	Active	11/23/2019	17.9 - 22.9	Vinyl chloride	3			1	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,1,1-Trichloroethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,1,2-Trichloroethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,1-Dichloroethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,1-Dichloroethene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		10	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,2-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,2-Dichloroethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,2-Dichloropropane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,3-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	1,4-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	2-Hexanone	0	U		10	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Acetone	0	U		50	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Benzene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Bromoform	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Bromomethane	0	U		4	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Carbon disulfide	0	U		4	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Carbon tetrachloride	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Chlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Chloroethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Chloroform	0	U		10	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Chloromethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	cis-1,2-Dichloroethylene	222			2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Cumene	2.1			2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Cyclohexane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Dibromochloromethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Dichlorobromomethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Dichlorodifluoromethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Ethylbenzene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	m & p-Xylenes	0	U		4	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Methyl acetate	0	U		20	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Methyl ethyl ketone	0	U		10	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Methyl isobutenyl ketone	0	U		10	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Methylcyclohexane	0	U		20	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Methylene Chloride	0	U		10	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	o-Xylene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Styrene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Tetrachloroethylene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Toluene	2.8			2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Trichloroethylene	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Trichlorofluoromethane	0	U		2	ug/L
MW-65A	MW-65A-042920	Permanent	Active	4/29/2020	17.9 - 22.9	Vinyl chloride	0	U		2	ug/L
MW-65A	MW-65A-061020	Permanent	Active	6/10/2020	17.9 - 22.9	Arsenic, Total	3.6	J		5	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,1,1-Trichloroethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,1,2-Trichloroethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,1-Dichloroethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,1-Dichloroethene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,2,4-Trichlorobenzene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,2-Dibromoethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,2-Dichlorobenzene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,2-Dichloroethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,2-Dichloropropane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,3-Dichlorobenzene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	1,4-Dichlorobenzene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	2-Hexanone	0			5	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Acetone	0			25	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Benzene	0.32	J		1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Bromoform	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Bromomethane	0			2	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Carbon tetrachloride	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Chlorobenzene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Chloroethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Chloroform	0			5	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Chloromethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	cis-1,2-Dichloroethylene	151			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	cis-1,3-Dichloropropylene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Cumene	1.6			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Cyclohexane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Dibromochloromethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Dichlorobromomethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Dichlorodifluoromethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Ethylbenzene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Methyl acetate	0			10	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Methyl ethyl ketone	0			5	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Methyl isobutenyl ketone	0			5	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Methylcyclohexane	0			10	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Methylene Chloride	0			5	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Styrene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Tetrachloroethylene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Toluene	1.4			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	trans-1,2-Dichloroethylene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	trans-1,3-Dichloropropylene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Trichloroethylene	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Trichlorofluoromethane	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Vinyl acetate	0			2	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Vinyl chloride	0			1	ug/L
MW-65A	MW-65A-102820	Permanent	Active	10/28/2020	17.9 - 22.9	Xylene (Total)	0			1	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,1,1-Trichloroethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,1,2-Trichloroethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,1-Dichloroethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,1-Dichloroethene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,2,4-Trichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,2-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,2-Dichloroethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,2-Dichloropropane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,3-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	1,4-Dichlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	2-Hexanone	0	U		12	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Acetone	0	U		62	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Benzene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Bromoform	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Bromomethane	0	U		5	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Carbon tetrachloride	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Chlorobenzene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Chloroethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Chloroform	0	U		12	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Chloromethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	cis-1,2-Dichloroethylene	350			2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	cis-1,3-Dichloropropylene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Cumene	3.1			2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Cyclohexane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Dibromochloromethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Dibromomethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Dichlorobromomethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Dichlorodifluoromethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Ethylbenzene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Methyl acetate	0	U		25	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Methyl ethyl ketone	0	U		12	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Methyl isobutenyl ketone	0	U		12	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Methylcyclohexane	0	U		25	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Methylene Chloride	0	U		12	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		2	ug/L

## Appendix B - Historical Groundwater Analytical Data

## Symrise Colonels Island Site

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Styrene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Tetrachloroethylene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Toluene	2.6			2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	trans-1,2-Dichloroethylene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	trans-1,3-Dichloropropylene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Trichloroethylene	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Trichlorofluoromethane	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Vinyl acetate	0	U		5	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Vinyl chloride	0	U		2	ug/L
MW-65A	MW-65A-040821	Permanent	Active	4/8/2021	17.9 - 22.9	Xylene (Total)	0	U		2	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1,1-Trichloroethane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1,2-Trichloroethane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1-Dichloroethane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,1-Dichloroethene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dibromoethane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dichlorobenzene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dichloroethane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,2-Dichloropropane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,3-Dichlorobenzene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	1,4-Dichlorobenzene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	2-Hexanone	0	U		10	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Acetone	0	U	UJ	50	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Benzene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Bromoform	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Bromomethane	0	U	UJ	5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Carbon disulfide	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Carbon tetrachloride	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Chlorobenzene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Chloroethane	0	U		10	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Chloroform	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Chloromethane	0	U		10	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Cumene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Cyclohexane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Dibromochloromethane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Dichlorobromomethane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Dichlorodifluoromethane	0	U		10	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Ethylbenzene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	m & p-Xylenes	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methyl acetate	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methyl ethyl ketone	0	U	UJ	50	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methyl isobutenyl ketone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methylcyclohexane	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Methylene chloride	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	o-Xylene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Styrene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Tetrachloroethylene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Toluene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Trichloroethylene	0	U		5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Trichlorofluoromethane	0	U	UJ	5	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Trichlorotrifluoroethane	0	U		10	ug/L
MW-65B	MW-65B-032517	Permanent	Active	3/25/2017	27.7 - 32.7	Vinyl chloride	0	U		2	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,1-Dichloroethene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dibromoethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Acetone	0	U		5	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Bromomethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Carbon disulfide	0	U		5	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Chloroform	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Cumene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Cyclohexane	0	U		5	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Dichlorobromomethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data**  
**Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	m & p-Xylenes	0	U		2	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methyl acetate	0	U		5	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methylcyclohexane	0	U		5	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Methylene Chloride	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	o-Xylene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Tetrachloroethylene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Trichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-65B	MW-65B-093017	Permanent	Active	9/30/2017	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,1-Dichloroethene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dibromoethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Acetone	0	U		25	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Bromodichloromethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Bromomethane	0	U		2	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Carbon disulfide	0	U		10	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Chloroform	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Cumene	0	U		10	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Cyclohexane	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	m & p-Xylenes	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methyl acetate	0	U		10	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methylcyclohexane	0	U		10	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Methylene Chloride	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	o-Xylene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Tetrachloroethylene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Trichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-65B	MW-65B-022418	Permanent	Active	2/24/2018	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,1-Dichloroethene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dibromoethane	0	U		2	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Acetone	0	U		25	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Bromomethane	0	U		2	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Carbon disulfide	0	U		10	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Chloroform	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Cumene	0	U		10	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Cyclohexane	0	U		10	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Dichlorobromomethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	m & p-Xylenes	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methyl acetate	0	U		10	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methylcyclohexane	0	U		10	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Methylene Chloride	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	o-Xylene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Tetrachloroethylene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Trichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-65B	MW-65B-080418	Permanent	Active	8/4/2018	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,1-Dichloroethene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dibromoethane	0	U		2	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Acetone	0	U		25	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Bromomethane	0	U		2	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Carbon disulfide	0	U		10	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Chloroform	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Cumene	0	U		10	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Cyclohexane	0	U		10	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Dichlorobromomethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	m & p-Xylenes	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methyl acetate	0	U		10	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methylcyclohexane	0	U		10	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Methylene Chloride	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	o-Xylene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Tetrachloroethylene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Trichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-65B	MW-65B-112319	Permanent	Active	11/23/2019	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1,1-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1,2-Trichloroethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,1-Dichloroethene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dibromoethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dichloroethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,2-Dichloropropane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,3-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	1,4-Dichlorobenzene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	2-Hexanone	0	U		5	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Acetone	0	U		25	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Benzene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Bromoform	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Bromomethane	0	U		2	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Carbon tetrachloride	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Chlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Chloroethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Chloroform	0	U		5	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Chloromethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Cumene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Cyclohexane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Dibromochloromethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Dibromomethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Dichlorobromomethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Dichlorodifluoromethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Ethylbenzene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methyl acetate	0	U		10	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methyl ethyl ketone	0	U		5	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methyl isobutenyl ketone	0	U		5	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methylcyclohexane	0	U		10	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Methylene Chloride	0	U		5	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Styrene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Tetrachloroethylene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Toluene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Trichloroethylene	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Trichlorofluoromethane	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Vinyl acetate	0	U		2	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Vinyl chloride	0	U		1	ug/L
MW-65B	MW-65B-040821	Permanent	Active	4/8/2021	27.7 - 32.7	Xylene (Total)	0	U		1	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,1,1-Trichloroethane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,1,2-Trichloroethane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,1-Dichloroethane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,1-Dichloroethene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,2-Dibromoethane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,2-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,2-Dichloroethane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,2-Dichloropropane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,3-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	1,4-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	2-Hexanone	0	U		10	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Acetone	0	U	UJ	50	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Benzene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Bromoform	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Bromomethane	0	U	UJ	5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Carbon disulfide	1.1	J		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Carbon tetrachloride	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Chlorobenzene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Chloroethane	0	U		10	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Chloroform	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Chloromethane	0	U		10	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	cis-1,2-Dichloroethylene	62			5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Cumene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Cyclohexane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Dibromochloromethane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Dichlorobromomethane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Dichlorodifluoromethane	0	U		10	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Ethylbenzene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	m & p-Xylenes	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Methyl acetate	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Methyl ethyl ketone	0	U	UJ	50	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Methyl isobutenyl ketone	0	U		10	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Methylcyclohexane	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Methylene chloride	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	o-Xylene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Styrene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Tetrachloroethylene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Toluene	1.4	J		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Trichloroethylene	0	U		5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Trichlorofluoromethane	0	U	UJ	5	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-032517	Permanent	Active	3/25/2017	17.75 - 22.75	Vinyl chloride	0	U		2	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,1,1-Trichloroethane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,1,1-Trichloroethane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,1,2-Trichloroethane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,1,2-Trichloroethane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,1-Dichloroethane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,1-Dichloroethane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,1-Dichloroethene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,1-Dichloroethene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U	UJ	5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dibromoethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dibromoethane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dichloroethane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dichloroethane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dichloropropane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,2-Dichloropropane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,3-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,3-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	1,4-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	1,4-Dichlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	2-Hexanone	0	U		10	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	2-Hexanone	0	U	UJ	10	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Acetone	7.9	J		50	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Acetone	6.3	J	J	50	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Benzene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Benzene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Bromoform	0	U	UJ	5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Bromoform	0	U	UJ	5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Bromomethane	0	U	UJ	5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Bromomethane	0	U	UJ	5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Carbon disulfide	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Carbon disulfide	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Chlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Chlorobenzene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Chloroethane	0	U		10	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Chloroethane	0	U		10	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Chloroform	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Chloroform	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Chloromethane	0	U		10	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Chloromethane	0	U		10	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	cis-1,2-Dichloroethylene	48			5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	cis-1,2-Dichloroethylene	46			5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Cumene	0.8	J		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Cumene	0.83	J		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Cyclohexane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Cyclohexane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Dibromochloromethane	0	U	UJ	5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Dibromochloromethane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Dichlorobromomethane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Dichlorobromomethane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Dichlorodifluoromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Dichlorodifluoromethane	0	U		10	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Ethylbenzene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Ethylbenzene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	m & p-Xylenes	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	m & p-Xylenes	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Methyl acetate	0	U	UJ	5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Methyl acetate	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Methyl ethyl ketone	0	U		50	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Methyl ethyl ketone	0	U		50	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Methyl isobutenyl ketone	0	U		10	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Methyl isobutenyl ketone	0	U		10	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Methylcyclohexane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Methylcyclohexane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Methylene chloride	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Methylene chloride	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	o-Xylene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	o-Xylene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Styrene	0	U	UJ	5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Styrene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Tetrachloroethylene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Tetrachloroethylene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Toluene	1.2	J		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Toluene	1.2	J		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Trichloroethylene	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Trichloroethylene	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Trichlorofluoromethane	0	U		5	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Trichlorofluoromethane	0	U		5	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-061417-DUP	Permanent	Active	6/14/2017	17.75 - 22.75	Vinyl chloride	0	U		2	ug/L
MW-66	MW-66-061417	Permanent	Active	6/14/2017	17.75 - 22.75	Vinyl chloride	1.2	J		2	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,2-Dibromoethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Acetone	0	U		5	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Bromomethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Carbon disulfide	0	U		5	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Chloroform	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	cis-1,2-Dichloroethylene	37.9			1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Cumene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Cyclohexane	0	U		5	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	m & p-Xylenes	0	U		2	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Methyl acetate	0	U		5	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Methylcyclohexane	0	U		5	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Methylene Chloride	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Toluene	1.1			1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-092917	Permanent	Active	9/29/2017	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,2-Dibromoethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Acetone	0	U		5	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Bromomethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Carbon disulfide	0	U		5	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Chloroform	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	cis-1,2-Dichloroethylene	2.8			1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Cumene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Cyclohexane	0	U		5	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	m & p-Xylenes	0	U		2	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Methyl acetate	0	U		5	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Methylcyclohexane	0	U		5	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Methylene Chloride	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-120117	Permanent	Active	12/1/2017	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,2-Dibromoethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Acetone	0	U		25	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Bromodichloromethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Bromomethane	0	U		2	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Carbon disulfide	0	U		10	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Chloroform	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	cis-1,2-Dichloroethylene	29			1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Cumene	0	U		10	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Cyclohexane	0	U		10	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	m & p-Xylenes	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Methyl acetate	0	U		10	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Methylcyclohexane	0	U		10	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Methylene Chloride	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-022318	Permanent	Active	2/23/2018	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,2-Dibromoethane	0	U		2	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Acetone	0	U		25	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Bromomethane	0	U		2	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Carbon disulfide	0	U		10	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Chloroform	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	cis-1,2-Dichloroethylene	9.9			1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Cumene	0	U		10	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Cyclohexane	0	U		10	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	m & p-Xylenes	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Methyl acetate	0	U		10	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Methylcyclohexane	0	U		10	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Methylene Chloride	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-051118	Permanent	Active	5/11/2018	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,2-Dibromoethane	0	U		2	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Acetone	0	U		25	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Bromomethane	0	U		2	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Carbon disulfide	0	U		10	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Chloroform	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	cis-1,2-Dichloroethylene	1.4			1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Cumene	0	U		10	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Cyclohexane	0	U		10	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	m & p-Xylenes	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Methyl acetate	0	U		10	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Methylcyclohexane	0	U		10	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Methylene Chloride	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-080318	Permanent	Active	8/3/2018	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dibromoethane	0	U		2	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dibromoethane	0	U		2	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Acetone	0	U		25	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Acetone	0	U		25	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Bromomethane	0	U		2	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Bromomethane	0	U		2	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Carbon disulfide	0	U		10	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Carbon disulfide	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Chloroform	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Chloroform	0	U	UJ	1.7	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	cis-1,2-Dichloroethylene	7.5		J	1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	cis-1,2-Dichloroethylene	9.7		J	1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Cumene	0	U		10	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Cumene	0	U		10	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Cyclohexane	0	U		10	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Cyclohexane	0	U		10	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	m & p-Xylenes	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	m & p-Xylenes	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Methyl acetate	0	U		10	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Methyl acetate	0	U		10	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Methylcyclohexane	0	U		10	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Methylcyclohexane	0	U		10	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Methylene Chloride	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Methylene Chloride	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-042619-DUP	Permanent	Active	4/26/2019	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L
MW-66	MW-66-042619	Permanent	Active	4/26/2019	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,2-Dibromoethane	0	U		2	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Acetone	0	U		25	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Bromomethane	0	U		2	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Carbon disulfide	0	U		10	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Chloroform	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Cumene	0	U		10	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Cyclohexane	0	U		10	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	m & p-Xylenes	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Methyl acetate	0	U		10	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Methylcyclohexane	0	U		10	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Methylene Chloride	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-112219	Permanent	Active	11/22/2019	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2,4,5-Tetrachlorobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Dibromoethane	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Dibromoethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Dichlorobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,2-Diphenylhydrazine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,3,5-Trinitrobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,3-Dichlorobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,3-Dinitrobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,4-Dichlorobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,4-Dinitrobenzene	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1,4-Naphthoquinone	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1-Methylnaphthalene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	1-Naphthalenamine	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,2'-Oxybis(1-chloropropane)	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,3,4,6-Tetrachlorophenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,3-Dibromo-1-propanol phosph	0	U		50	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,3-Dichloroaniline	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4,5-T	0	U		2	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4,5-TP (Silvex)	0	U		2	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4,5-Trichlorophenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4,6-Trichlorophenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4-D	0	U		2	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4-Dichlorophenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4-Dimethylphenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4-Dinitrophenol	0	U		50	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,4-Dinitrotoluene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,6-Dichlorophenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2,6-Dinitrotoluene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Acetylaminofluorene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Chloronaphthalene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Chlorophenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Hexanone	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Methyl-5-nitroaniline	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Methylnaphthalene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Methylphenol(o-Cresol)	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Naphthalenamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Nitroaniline	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Nitrophenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	2-Picoline	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	3&4-Methylphenol(m&p Cresol)	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	3,3'-Dichlorobenzidine	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	3,3'-Dimethylbenzidine	0	U		25	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	3-Methylcholanthrene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	3-Nitroaniline	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4,4'-DDD	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4,4'-DDE	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4,4'-DDT	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4,4'-Methylene-bis(2-chloroani	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4,6-Dinitro-2-methylphenol	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4-Aminobiphenyl	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4-Bromophenylphenyl ether	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4-Chloro-3-methylphenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4-Chloroaniline	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4-Chlorophenylphenyl ether	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4-Nitroaniline	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4-Nitrophenol	0	U		50	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	4-Nitroquinoline-n-oxide	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	5-Nitro-o-toluidine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	7,12-Dimethylbenz(a)anthracene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	a,a-Dimethylphenylethylamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Acenaphthene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Acenaphthylene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Acetone	0	U		25	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Acetophenone	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Aldrin	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	alpha-BHC	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Aniline	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Anthracene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Antimony, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Aramite	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Arsenic, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Atrazine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Barium, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzal chloride	0	U		50	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzaldehyde	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzidine	0	U		50	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzo(a)anthracene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzo(a)pyrene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzo(b)fluoranthene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzo(g,h,i)perylene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzo(k)fluoranthene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzoic Acid	0	U		50	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzophenone	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Benzyl alcohol	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Beryllium, Total	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	beta-BHC	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Biphenyl (Diphenyl)	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	bis(2-Chloroethoxy)methane	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	bis(2-Chloroethyl) ether	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	bis(2-Ethylhexyl)phthalate	0	U		6	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Bromomethane	0	U		2	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Butylbenzylphthalate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Cadmium, Total	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Caprolactam	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Carbazole	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Carbon disulfide	0	U		2	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Chlordane (Technical)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Chlorobenzilate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Chloroform	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Chromium, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Chrysene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	cis-1,2-Dichloroethylene	7.3			1	ug/L

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Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Cobalt, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Copper, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Cumene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Cyanide	0	U		0	mg/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Cyclohexane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	delta-BHC	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Diallate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dibenz(a,h)anthracene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dibenzo(a,e)pyrene	0	U		50	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dibenzofuran	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dieldrin	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Diethylphthalate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dimethoate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dimethylphthalate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Di-n-butylphthalate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Di-n-octylphthalate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dinoseb	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Dinoseb	0	U		2	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Diphenyl ether (Phenyl ether)	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Diphenylamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Disulfoton	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Endosulfan I	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Endosulfan II	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Endosulfan sulfate	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Endrin	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Endrin aldehyde	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Ethyl methanesulfonate	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Famphur	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Fluoranthene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Fluorene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	gamma-BHC (Lindane)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Heptachlor	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Heptachlor epoxide	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Hexachloro-1,3-butadiene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Hexachlorobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Hexachlorobenzene	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Hexachlorocyclopentadiene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Hexachloroethane	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Hexachlorophene	0	U		100	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Hexachloropropene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Indeno(1,2,3-cd)pyrene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Isodrin	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Isophorone	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Isosafrole	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Kepone	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Lead, Total	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	m & p-Xylenes	0	U		2	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Mercury, Total	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methapyrilene	0	U		50	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methoxychlor	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methyl acetate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methyl methanesulfonate	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methyl parathion	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methylcyclohexane	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Methylene Chloride	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Naphthalene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	n-Decane	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Nickel, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Nitrobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitrosodiethylamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitrosodimethylamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitroso-di-n-butylamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitroso-di-n-propylamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitrosodiphenylamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitrosomethylethylamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitrosomorpholine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitrosopiperidine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	N-Nitrosopyrrolidine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	n-Octadecane	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	O,O,O-Triethylphosphorothioate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	O-Toluidine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	o-Xylene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Parathion (Ethyl parathion)	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	PCB-1016 (Aroclor 1016)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	P-Dimethylaminoazobenzene	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Pentachlorobenzene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Pentachloroethane	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Pentachloronitrobenzene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Pentachlorophenol	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Phenacetin	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Phenanthrene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Phenol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Phorate	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	p-Phenylenediamine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Pronamide	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Pyrene	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Pyridine	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Safrole	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Selenium, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Silver, Total	0	U		5	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Sulfide	0	U		1	mg/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Sulfotepp (Thiodiphosphoric Ac	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Terpineol	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Thallium, Total	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Thionazin	0	U		10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Tin, Total	0	U		20	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Toxaphene	0	U		0	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Vanadium, Total	12.3			10	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Vinyl chloride	0	U		1	ug/L
MW-66	MW-66-042920	Permanent	Active	4/29/2020	17.75 - 22.75	Zinc, Total	11.4			10	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,1,1-Trichloroethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,1,2-Trichloroethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,1-Dichloroethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,1-Dichloroethene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,2,4-Trichlorobenzene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,2-Dibromoethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,2-Dichlorobenzene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,2-Dichloroethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,2-Dichloropropane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,3-Dichlorobenzene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	1,4-Dichlorobenzene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	2-Hexanone	0			5	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Acetone	0			25	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Benzene	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Bromoform	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Bromomethane	0			2	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Carbon tetrachloride	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Chlorobenzene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Chloroethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Chloroform	0			5	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Chloromethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	cis-1,2-Dichloroethylene	1.5			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	cis-1,3-Dichloropropylene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Cumene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Cyclohexane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Dibromochloromethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Dichlorobromomethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Dichlorodifluoromethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Ethylbenzene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Methyl acetate	0			10	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Methyl ethyl ketone	0			5	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Methyl isobutenyl ketone	0			5	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Methylcyclohexane	0			10	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Methylene Chloride	0			5	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Styrene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Tetrachloroethylene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Toluene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	trans-1,2-Dichloroethylene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	trans-1,3-Dichloropropylene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Trichloroethylene	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Trichlorofluoromethane	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Vinyl acetate	0			2	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Vinyl chloride	0			1	ug/L
MW-66	MW-66-102820	Permanent	Active	10/28/2020	17.75 - 22.75	Xylene (Total)	0			1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,1,1-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,1,2-Trichloroethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,1-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,1-Dichloroethene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,2-Dibromoethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,2-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,2-Dichloroethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,2-Dichloropropane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,3-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	1,4-Dichlorobenzene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	2-Hexanone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Acetone	0	U		25	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Benzene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Bromoform	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Bromomethane	0	U		2	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Carbon tetrachloride	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Chlorobenzene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Chloroethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Chloroform	0	U		5	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Chloromethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	cis-1,2-Dichloroethylene	12			1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Cumene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Cyclohexane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Dibromochloromethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Dibromomethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Dichlorobromomethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Dichlorodifluoromethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Ethylbenzene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Methyl acetate	0	U		10	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Methyl ethyl ketone	0	U		5	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Methyl isobutenyl ketone	0	U		5	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Methylcyclohexane	0	U		10	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Methylene Chloride	0	U		5	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Styrene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Tetrachloroethylene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Toluene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Trichloroethylene	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Trichlorofluoromethane	0	U		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Vinyl acetate	0	U		2	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Vinyl chloride	0.55	J		1	ug/L
MW-66	MW-66-040821	Permanent	Active	4/8/2021	17.75 - 22.75	Xylene (Total)	0	U		1	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,1,1-Trichloroethane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,1,2-Trichloroethane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,1-Dichloroethane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,1-Dichloroethene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,2-Dibromoethane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,2-Dichlorobenzene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,2-Dichloroethane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,2-Dichloropropane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,3-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	1,4-Dichlorobenzene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	2-Hexanone	0	U		10	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Acetone	0	U	UJ	50	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Benzene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Bromoform	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Bromomethane	0	U	UJ	5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Carbon disulfide	1.8	J		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Carbon disulfide	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Carbon tetrachloride	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Chlorobenzene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Chloroethane	0	U		10	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Chloroform	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Chloromethane	0	U		10	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Cumene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Cyclohexane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Dibromochloromethane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Dichlorobromomethane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Dichlorodifluoromethane	0	U		10	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Ethylbenzene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	m & p-Xylenes	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Methyl acetate	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Methyl ethyl ketone	0	U	UJ	50	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Methyl isobutenyl ketone	0	U		10	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Methylcyclohexane	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Methylene chloride	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	o-Xylene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Styrene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Tetrachloroethylene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Toluene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Trichloroethylene	0	U		5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Trichlorofluoromethane	0	U	UJ	5	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Trichlorotrifluoroethane	0	U		10	ug/L
MW-67	MW-67-032517	Permanent	Active	3/25/2017	17.91 - 22.91	Vinyl chloride	0	U		2	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,1,1-Trichloroethane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,1,2-Trichloroethane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,1-Dichloroethane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,1-Dichloroethene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,2-Dibromoethane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,2-Dichlorobenzene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,2-Dichloroethane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,2-Dichloropropane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,3-Dichlorobenzene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	1,4-Dichlorobenzene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	2-Hexanone	0	U	UJ	10	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Acetone	0	U	UJ	50	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Benzene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Bromoform	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Bromomethane	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Carbon disulfide	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Chlorobenzene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Chloroethane	0	U		10	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Chloroform	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Chloromethane	0	U		10	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Cumene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Cyclohexane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Dibromochloromethane	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Dichlorobromomethane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Dichlorodifluoromethane	0	U		10	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Ethylbenzene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	m & p-Xylenes	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Methyl acetate	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Methyl ethyl ketone	0	U		50	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Methyl isobutenyl ketone	0	U		10	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Methylcyclohexane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Methylene chloride	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	o-Xylene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Styrene	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Tetrachloroethylene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Toluene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Trichloroethylene	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Trichlorofluoromethane	0	U		5	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Trichlorotrifluoroethane	0	U		10	ug/L
MW-67	MW-67-061417	Permanent	Active	6/14/2017	17.91 - 22.91	Vinyl chloride	0	U		2	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,2-Dibromoethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Acetone	0	U		5	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Bromomethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Carbon disulfide	0	U		5	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Chloroform	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Cumene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Cyclohexane	0	U		5	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Dichlorobromomethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	m & p-Xylenes	0	U		2	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Methyl acetate	0	U		5	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Methylcyclohexane	0	U		5	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Methylene Chloride	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Styrene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L
MW-67	MW-67-093017	Permanent	Active	9/30/2017	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,2-Dibromoethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Acetone	0	U		5	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Bromomethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Carbon disulfide	0	U		5	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Chloroform	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Cumene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Cyclohexane	0	U		5	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Dichlorobromomethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	m & p-Xylenes	0	U		2	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Methyl acetate	0	U		5	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Methylcyclohexane	0	U		5	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Methylene Chloride	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Styrene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-120117	Permanent	Active	12/1/2017	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,2-Dibromoethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Acetone	0	U		25	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Bromodichloromethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Bromomethane	0	U		2	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Carbon disulfide	0	U		10	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Chloroform	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Cumene	0	U		10	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Cyclohexane	0	U		10	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	m & p-Xylenes	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Methyl acetate	0	U		10	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Methylcyclohexane	0	U		10	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Methylene Chloride	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Styrene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L
MW-67	MW-67-022318	Permanent	Active	2/23/2018	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,2-Dibromoethane	0	U		2	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Acetone	0	U		25	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Bromomethane	0	U		2	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Carbon disulfide	0	U		10	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Chloroform	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Cumene	0	U		10	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Cyclohexane	0	U		10	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Dichlorobromomethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	m & p-Xylenes	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Methyl acetate	0	U		10	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Methylcyclohexane	0	U		10	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Methylene Chloride	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Styrene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L
MW-67	MW-67-051118	Permanent	Active	5/11/2018	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,2-Dibromoethane	0	U		2	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Acetone	0	U		25	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Bromomethane	0	U		2	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Carbon disulfide	0	U		10	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Chloroform	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Cumene	0	U		10	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Cyclohexane	0	U		10	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Dichlorobromomethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	m & p-Xylenes	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Methyl acetate	0	U		10	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Methylcyclohexane	0	U		10	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Methylene Chloride	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Styrene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L
MW-67	MW-67-080318	Permanent	Active	8/3/2018	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,2-Dibromoethane	0	U		2	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Acetone	0	U		25	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Bromomethane	0	U		2	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Carbon disulfide	0	U		10	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Chloroform	0	U	UJ	1.9	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Cumene	0	U		10	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Cyclohexane	0	U		10	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Dichlorobromomethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	m & p-Xylenes	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Methyl acetate	0	U		10	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Methylcyclohexane	0	U		10	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Methylene Chloride	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Styrene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L
MW-67	MW-67-042619	Permanent	Active	4/26/2019	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,2-Dibromoethane	0	U		2	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Acetone	0	U		25	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Bromomethane	0	U		2	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Carbon disulfide	0	U		10	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Chloroform	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Cumene	0	U		10	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Cyclohexane	0	U		10	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Dichlorobromomethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	m & p-Xylenes	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Methyl acetate	0	U		10	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Methylcyclohexane	0	U		10	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Methylene Chloride	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Styrene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L
MW-67	MW-67-112219	Permanent	Active	11/22/2019	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,1,1,2-Tetrachloroethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,1,1-Trichloroethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,1,2-Trichloroethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,1-Dichloroethane	0	U		2	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,1-Dichloroethene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2,3-Trichloropropane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2,4,5-Tetrachlorobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Dibromoethane	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Dibromoethane	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Dichlorobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Dichlorobenzene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Dichloroethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Dichloropropane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,2-Diphenylhydrazine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,3,5-Trinitrobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,3-Dichlorobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,3-Dinitrobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,4-Dichlorobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,4-Dichlorobenzene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,4-Dinitrobenzene	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,4-Dioxane (p-Dioxane)	0	U		150	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1,4-Naphthoquinone	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1-Methylnaphthalene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	1-Naphthalenamine	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,2'-Oxybis(1-chloropropane)	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,3,4,6-Tetrachlorophenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,3-Dibromo-1-propanol phosph	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,3-Dichloroaniline	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4,5-T	0	U		8	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4,5-TP (Silvex)	0	U		8	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4,5-Trichlorophenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4,6-Trichlorophenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4-D	0	U		8	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4-Dichlorophenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4-Dimethylphenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4-Dinitrophenol	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,4-Dinitrotoluene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,6-Dichlorophenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2,6-Dinitrotoluene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Acetylaminofluorene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Chloronaphthalene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Chlorophenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Hexanone	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Methyl-5-nitroaniline	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Methylnaphthalene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Methylphenol(o-Cresol)	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Naphthalenamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Nitroaniline	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Nitrophenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	2-Picoline	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	3&4-Methylphenol(m&p Cresol)	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	3,3'-Dichlorobenzidine	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	3,3'-Dimethylbenzidine	0	U		25	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	3-Methylcholanthrene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	3-Nitroaniline	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4,4'-DDD	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4,4'-DDE	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4,4'-DDT	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4,4'-Methylene-bis(2-chloroani	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4,6-Dinitro-2-methylphenol	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4-Aminobiphenyl	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4-Bromophenylphenyl ether	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4-Chloro-3-methylphenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4-Chloroaniline	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4-Chlorophenylphenyl ether	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4-Nitroaniline	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4-Nitrophenol	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	4-Nitroquinoline-n-oxide	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	5-Nitro-o-toluidine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	7,12-Dimethylbenz(a)anthracene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	a,a-Dimethylphenylethylamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Acenaphthene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Acenaphthylene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Acetone	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Acetonitrile	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Acetophenone	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Acrolein	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Acrylonitrile	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Aldrin	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Allyl chloride	0	U		2	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	alpha-BHC	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Aniline	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Anthracene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Antimony, Total	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Aramite	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Arsenic, Total	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Atrazine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Barium, Total	15.8			5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzal chloride	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzaldehyde	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzidine	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzo(a)anthracene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzo(a)pyrene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzo(b)fluoranthene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzo(g,h,i)perylene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzo(k)fluoranthene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzoic Acid	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzophenone	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Benzyl alcohol	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Beryllium, Total	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	beta-BHC	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Biphenyl (Diphenyl)	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	bis(2-Chloroethoxy)methane	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	bis(2-Chloroethyl) ether	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	bis(2-Ethylhexyl)phthalate	0	U		6	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Bromoform	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Bromomethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Butylbenzylphthalate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Cadmium, Total	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Caprolactam	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Carbazole	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Carbon disulfide	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Carbon tetrachloride	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chlordane (Technical)	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chlorobenzilate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chloroethane	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chloroform	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chloromethane	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chloroprene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chromium, Total	7.1			5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Chrysene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Cobalt, Total	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Copper, Total	15.6			5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Cyanide	0	U		0	mg/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	delta-BHC	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Diallate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dibenz(a,h)anthracene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dibenzo(a,e)pyrene	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dibenzofuran	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dibromochloromethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dibromomethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dichlorobromomethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dieldrin	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Diethylphthalate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dimethoate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dimethylphthalate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Di-n-butylphthalate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Di-n-octylphthalate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dinoseb	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Dinoseb	0	U		8	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Diphenyl ether (Phenyl ether)	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Diphenylamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Disulfoton	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Endosulfan I	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Endosulfan II	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Endosulfan sulfate	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Endrin	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Endrin aldehyde	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Ethyl methacrylate	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Ethyl methanesulfonate	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Famphur	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Fluoranthene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Fluorene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	gamma-BHC (Lindane)	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Heptachlor	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Heptachlor epoxide	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Hexachloro-1,3-butadiene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Hexachloro-1,3-butadiene	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Hexachlorobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Hexachlorobenzene	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Hexachlorocyclopentadiene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Hexachloroethane	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Hexachlorophene	0	U		100	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Hexachloropropene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Indeno(1,2,3-cd)pyrene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Iodomethane	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Isobutanol	0	U		100	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Isodrin	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Isophorone	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Isosafrole	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Kepone	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Lead, Total	1.9			1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	m & p-Xylenes	0	U		2	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Mercury, Total	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methacrylonitrile	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methapyrilene	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methoxychlor	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methyl ethyl ketone	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methyl isobutenyl ketone	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methyl methacrylate	0	U		2	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methyl methanesulfonate	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methyl parathion	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Methylene Chloride	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Naphthalene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Naphthalene	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	n-Decane	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Nickel, Total	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Nitrobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitrosodiethylamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitrosodimethylamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitroso-di-n-butylamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitroso-di-n-propylamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitrosodiphenylamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitrosomethylethylamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitrosomorpholine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitrosopiperidine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	N-Nitrosopyrrolidine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	n-Octadecane	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	O,O,O-Triethylphosphorothioate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	O-Toluidine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Parathion (Ethyl parathion)	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	PCB-1016 (Aroclor 1016)	0	U		0	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	P-Dimethylaminoazobenzene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Pentachlorobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Pentachloroethane	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Pentachloroethane	0	U		50	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Pentachloronitrobenzene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Pentachlorophenol	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Phenacetin	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Phenanthrene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Phenol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Phorate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	p-Phenylenediamine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Pronamide	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Propionitrile	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Pyrene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Pyridine	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Safrole	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Selenium, Total	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Silver, Total	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Styrene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Sulfide	0	U		1	mg/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Sulfotepp (Thiodiphosphoric Ac	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Terpineol	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Tetrachloroethylene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Thallium, Total	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Thionazin	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Tin, Total	0	U		20	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Toxaphene	0	U		0	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	trans-1,4-Dichloro-2-butene	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Trichloroethylene	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Trichlorofluoromethane	0	U		5	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Vanadium, Total	16.4			10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Vinyl acetate	0	U		10	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Vinyl chloride	0	U		2	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Xylene (Total)	0	U		1	ug/L
MW-67	MW-67-032520	Permanent	Active	3/26/2020	17.91 - 22.91	Zinc, Total	186			10	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L

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Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,2-Dibromoethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Acetone	0	U		25	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Bromomethane	0	U		2	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Carbon disulfide	0	U		2	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Chloroform	0	U		5	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Cumene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Cyclohexane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Dichlorobromomethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	m & p-Xylenes	0	U		2	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Methyl acetate	0	U		10	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Methylcyclohexane	0	U		10	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Methylene Chloride	0	U		5	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	o-Xylene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Styrene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-042920	Permanent	Active	4/29/2020	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,1,1-Trichloroethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,1,2-Trichloroethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,1-Dichloroethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,1-Dichloroethene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,2,4-Trichlorobenzene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,2-Dibromoethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,2-Dichlorobenzene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,2-Dichloroethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,2-Dichloropropane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,3-Dichlorobenzene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	1,4-Dichlorobenzene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	2-Hexanone	0			5	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Acetone	0			25	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Benzene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Bromoform	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Bromomethane	0			2	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Carbon tetrachloride	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Chlorobenzene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Chloroethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Chloroform	0			5	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Chloromethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	cis-1,2-Dichloroethylene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	cis-1,3-Dichloropropylene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Cumene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Cyclohexane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Dibromochloromethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Dichlorobromomethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Dichlorodifluoromethane	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Ethylbenzene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Methyl acetate	0			10	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Methyl ethyl ketone	0			5	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Methyl isobutenyl ketone	0			5	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Methylcyclohexane	0			10	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Methylene Chloride	0			5	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Styrene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Tetrachloroethylene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Toluene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	trans-1,2-Dichloroethylene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	trans-1,3-Dichloropropylene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Trichloroethylene	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Trichlorofluoromethane	0			1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Vinyl acetate	0			2	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Vinyl chloride	0			1	ug/L
MW-67	MW-67-102820	Permanent	Active	10/28/2020	17.91 - 22.91	Xylene (Total)	0			1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,1,1-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,1,2-Trichloroethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,1-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,1-Dichloroethene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,2-Dibromoethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,2-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,2-Dichloroethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,2-Dichloropropane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,3-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	1,4-Dichlorobenzene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	2-Hexanone	0	U		5	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Acetone	0	U		25	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Benzene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Bromoform	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Bromomethane	0	U		2	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Carbon tetrachloride	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Chlorobenzene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Chloroethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Chloroform	0	U		5	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Chloromethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Cumene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Cyclohexane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Dibromochloromethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Dibromomethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Dichlorobromomethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Dichlorodifluoromethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Ethylbenzene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Methyl acetate	0	U		10	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Methyl ethyl ketone	0	U		5	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Methyl isobutenyl ketone	0	U		5	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Methylcyclohexane	0	U		10	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Methylene Chloride	0	U		5	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Styrene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Tetrachloroethylene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Toluene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	trans-1,2-Dichloroethylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Trichloroethylene	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Trichlorofluoromethane	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Vinyl acetate	0	U		2	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Vinyl chloride	0	U		1	ug/L
MW-67	MW-67-040821	Permanent	Active	4/8/2021	17.91 - 22.91	Xylene (Total)	0	U		1	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,1,1-Trichloroethane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,1,2-Trichloroethane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,1-Dichloroethane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,1-Dichloroethene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,2-Dibromoethane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,2-Dichlorobenzene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,2-Dichloroethane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,2-Dichloropropane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,3-Dichlorobenzene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	1,4-Dichlorobenzene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	2-Hexanone	0	U		10	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Acetone	0	U		50	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Benzene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Bromoform	0	U	UJ	5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Bromomethane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Carbon disulfide	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Carbon tetrachloride	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Chlorobenzene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Chloroethane	0	U		10	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Chloroform	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Chloromethane	0	U		10	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Cumene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Cyclohexane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Dibromochloromethane	0	U	UJ	5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Dichlorobromomethane	0	U	UJ	5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Dichlorodifluoromethane	0	U		10	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Ethylbenzene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	m & p-Xylenes	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Methyl acetate	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Methyl ethyl ketone	0	U		50	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Methyl isobutenyl ketone	0	U		10	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Methylcyclohexane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Methylene chloride	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	o-Xylene	0	U		5	ug/L

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Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Styrene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Tetrachloroethylene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Toluene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Trichloroethylene	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Trichlorofluoromethane	0	U		5	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Trichlorotrifluoroethane	0	U		10	ug/L
MW-68	MW-68-032517	Permanent	Active	3/25/2017	17.88 - 22.88	Vinyl chloride	0	U		2	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,1,1-Trichloroethane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,1,2-Trichloroethane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,1-Dichloroethane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,1-Dichloroethene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,2-Dibromoethane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,2-Dichlorobenzene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,2-Dichloroethane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,2-Dichloropropane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,3-Dichlorobenzene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	1,4-Dichlorobenzene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	2-Hexanone	0	U	UJ	10	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Acetone	0	U	UJ	50	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Benzene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Bromoform	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Bromomethane	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Carbon disulfide	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Carbon tetrachloride	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Chlorobenzene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Chloroethane	0	U		10	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Chloroform	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Chloromethane	0	U		10	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	cis-1,2-Dichloroethylene	0.57	J		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Cumene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Cyclohexane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Dibromochloromethane	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Dichlorobromomethane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Dichlorodifluoromethane	0	U		10	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Ethylbenzene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	m & p-Xylenes	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Methyl acetate	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Methyl ethyl ketone	0	U		50	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Methyl isobutenyl ketone	0	U		10	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Methylcyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Methylene chloride	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	o-Xylene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Styrene	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Tetrachloroethylene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Toluene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Trichloroethylene	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Trichlorofluoromethane	0	U		5	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Trichlorotrifluoroethane	0	U		10	ug/L
MW-68	MW-68-061417	Permanent	Active	6/14/2017	17.88 - 22.88	Vinyl chloride	0	U		2	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,2-Dibromoethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Acetone	5.7			5	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Bromomethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Carbon disulfide	0	U		5	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Chloroform	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Chloromethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Cumene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Cyclohexane	0	U		5	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Dichlorobromomethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	m & p-Xylenes	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Methyl acetate	0	U		5	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Methylcyclohexane	0	U		5	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Methylene Chloride	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-092917	Permanent	Active	9/29/2017	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,1,1-Trichloro-2,2,2-Trifluoroethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,2-Dibromoethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Acetone	7.5			5	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Bromomethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Carbon disulfide	0	U		5	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Chloroform	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Chloromethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Cumene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Cyclohexane	0	U		5	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Dichlorobromomethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	m & p-Xylenes	0	U		2	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Methyl acetate	0	U		5	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Methylcyclohexane	0	U		5	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Methylene Chloride	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-120117	Permanent	Active	12/1/2017	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,2-Dibromoethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Acetone	0	U		25	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Bromodichloromethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Bromomethane	0	U		2	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Carbon disulfide	0	U		10	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Chloroform	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Chloromethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Cumene	0	U		10	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Cyclohexane	0	U		10	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	m & p-Xylenes	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Methyl acetate	0	U		10	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Methylcyclohexane	0	U		10	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Methylene Chloride	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-022318	Permanent	Active	2/23/2018	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,2-Dibromoethane	0	U		2	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Acetone	0	U		25	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Bromomethane	0	U		2	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Carbon disulfide	0	U		10	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Chloroform	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Chloromethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Cumene	0	U		10	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Cyclohexane	0	U		10	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Dichlorobromomethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	m & p-Xylenes	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Methyl acetate	0	U		10	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Methylcyclohexane	0	U		10	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Methylene Chloride	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-051118	Permanent	Active	5/11/2018	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,2-Dibromoethane	0	U		2	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Acetone	0	U		25	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Bromomethane	0	U		2	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Carbon disulfide	0	U		10	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Chloroform	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Chloromethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Cumene	0	U		10	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Cyclohexane	0	U		10	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Dichlorobromomethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	m & p-Xylenes	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Methyl acetate	0	U		10	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Methylcyclohexane	0	U		10	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Methylene Chloride	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-080318	Permanent	Active	8/3/2018	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,2-Dibromoethane	0	U		2	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Acetone	62.9			25	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Bromomethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Carbon disulfide	0	U		10	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Chloroform	0	U	UJ	1.8	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Chloromethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Cumene	0	U		10	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Cyclohexane	0	U		10	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Dichlorobromomethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	m & p-Xylenes	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Methyl acetate	0	U		10	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Methylcyclohexane	0	U		10	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Methylene Chloride	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-042619	Permanent	Active	4/26/2019	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,2-Dibromoethane	0	U		2	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Acetone	38.7			25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Bromomethane	0	U		2	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Carbon disulfide	0	U		10	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Chloroform	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Chloromethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Cumene	0	U		10	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Cyclohexane	0	U		10	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Dichlorobromomethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	m & p-Xylenes	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Methyl acetate	0	U		10	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Methylcyclohexane	0	U		10	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Methylene Chloride	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-112219	Permanent	Active	11/22/2019	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,1,1,2-Tetrachloroethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,1,1-Trichloroethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,1,2-Trichloroethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,1-Dichloroethane	0	U		2	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,1-Dichloroethene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2,3-Trichloropropane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2,4,5-Tetrachlorobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Dibromoethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Dibromoethane	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Dichlorobenzene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Dichlorobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Dichloroethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Dichloropropane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,2-Diphenylhydrazine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,3,5-Trinitrobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,3-Dichlorobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,3-Dinitrobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,4-Dichlorobenzene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,4-Dichlorobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,4-Dinitrobenzene	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,4-Dioxane (p-Dioxane)	0	U		150	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1,4-Naphthoquinone	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1-Methylnaphthalene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	1-Naphthalenamine	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,2'-Oxybis(1-chloropropane)	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,3,4,6-Tetrachlorophenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,3-Dibromo-1-propanol phosph	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,3-Dichloroaniline	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4,5-T	0	U		8	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4,5-TP (Silvex)	0	U		8	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4,5-Trichlorophenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4,6-Trichlorophenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4-D	0	U		8	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4-Dichlorophenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4-Dimethylphenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4-Dinitrophenol	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,4-Dinitrotoluene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,6-Dichlorophenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2,6-Dinitrotoluene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Acetylaminofluorene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Chloronaphthalene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Chlorophenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Hexanone	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Methyl-5-nitroaniline	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Methylnaphthalene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Methylphenol(o-Cresol)	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Naphthalenamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Nitroaniline	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Nitrophenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	2-Picoline	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	3&4-Methylphenol(m&p Cresol)	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	3,3'-Dichlorobenzidine	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	3,3'-Dimethylbenzidine	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	3-Methylcholanthrene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	3-Nitroaniline	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4,4'-DDD	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4,4'-DDE	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4,4'-DDT	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4,4'-Methylene-bis(2-chloroani	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4,6-Dinitro-2-methylphenol	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4-Aminobiphenyl	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4-Bromophenylphenyl ether	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4-Chloro-3-methylphenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4-Chloroaniline	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4-Chlorophenylphenyl ether	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4-Nitroaniline	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4-Nitrophenol	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	4-Nitroquinoline-n-oxide	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	5-Nitro-o-toluidine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	7,12-Dimethylbenz(a)anthracene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	a,a-Dimethylphenylethylamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Acenaphthene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Acenaphthylene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Acetone	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Acetonitrile	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Acetophenone	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Acrolein	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Acrylonitrile	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Aldrin	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Allyl chloride	0	U		2	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	alpha-BHC	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Aniline	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Anthracene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Antimony, Total	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Aramite	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Arsenic, Total	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Atrazine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Barium, Total	193			5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzal chloride	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzaldehyde	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzidine	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzo(a)anthracene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzo(a)pyrene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzo(b)fluoranthene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzo(g,h,i)perylene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzo(k)fluoranthene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzoic Acid	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzophenone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Benzyl alcohol	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Beryllium, Total	0.83			0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	beta-BHC	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Biphenyl (Diphenyl)	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	bis(2-Chloroethoxy)methane	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	bis(2-Chloroethyl) ether	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	bis(2-Ethylhexyl)phthalate	0	U		6	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Bromoform	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Bromomethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Butylbenzylphthalate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Cadmium, Total	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Caprolactam	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Carbazole	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Carbon disulfide	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Carbon tetrachloride	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chlordane (Technical)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chlorobenzene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chlorobenzilate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chloroethane	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chloroform	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chloromethane	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chloroprene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chromium, Total	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Chrysene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Cobalt, Total	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Copper, Total	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Cyanide	0	U		0	mg/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	delta-BHC	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Diallate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dibenz(a,h)anthracene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dibenzo(a,e)pyrene	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dibenzofuran	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dibromochloromethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dibromomethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dichlorobromomethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dieldrin	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Diethylphthalate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dimethoate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dimethylphthalate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Di-n-butylphthalate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Di-n-octylphthalate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dinoseb	0	U		8	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Dinoseb	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Diphenyl ether (Phenyl ether)	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Diphenylamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Disulfoton	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Endosulfan I	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Endosulfan II	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Endosulfan sulfate	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Endrin	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Endrin aldehyde	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Ethyl methacrylate	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Ethyl methanesulfonate	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Famphur	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Fluoranthene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Fluorene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	gamma-BHC (Lindane)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Heptachlor	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Heptachlor epoxide	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Hexachloro-1,3-butadiene	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Hexachloro-1,3-butadiene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Hexachlorobenzene	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Hexachlorobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Hexachlorocyclopentadiene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Hexachloroethane	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Hexachlorophene	0	U		100	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Hexachloropropene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Indeno(1,2,3-cd)pyrene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Iodomethane	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Isobutanol	0	U		100	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Isodrin	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Isophorone	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Isosafrole	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Kepone	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Lead, Total	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	m & p-Xylenes	0	U		2	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Mercury, Total	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methacrylonitrile	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methapyrilene	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methoxychlor	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methyl ethyl ketone	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methyl isobutenyl ketone	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methyl methacrylate	0	U		2	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methyl methanesulfonate	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methyl parathion	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Methylene Chloride	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Naphthalene	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Naphthalene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	n-Decane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Nickel, Total	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Nitrobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitrosodiethylamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitrosodimethylamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitroso-di-n-butylamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitroso-di-n-propylamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitrosodiphenylamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitrosomethylethylamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitrosomorpholine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitrosopiperidine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	N-Nitrosopyrrolidine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	n-Octadecane	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	O,O,O-Triethylphosphorothioate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	O-Toluidine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Parathion (Ethyl parathion)	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	PCB-1016 (Aroclor 1016)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	P-Dimethylaminoazobenzene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Pentachlorobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Pentachloroethane	0	U		50	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Pentachloroethane	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Pentachloronitrobenzene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Pentachlorophenol	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Phenacetin	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Phenanthrene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Phenol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Phorate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	p-Phenylenediamine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Pronamide	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Propionitrile	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Pyrene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Pyridine	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Safrole	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Selenium, Total	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Silver, Total	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Styrene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Sulfide	0	U		1	mg/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Sulfotepp (Thiodiphosphoric Ac	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Terpineol	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Tetrachloroethylene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Thallium, Total	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Thionazin	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Tin, Total	0	U		20	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Toxaphene	0	U		0	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	trans-1,4-Dichloro-2-butene	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Trichloroethylene	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Trichlorofluoromethane	0	U		5	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Vanadium, Total	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Vinyl acetate	0	U		10	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Vinyl chloride	0	U		2	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Xylene (Total)	0	U		1	ug/L
MW-68	MW-68-032520	Permanent	Active	3/26/2020	17.88 - 22.88	Zinc, Total	59.2			10	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,2-Dibromoethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Acetone	0	U		25	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Bromomethane	0	U		2	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Carbon disulfide	0	U		2	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Chloroform	0	U		5	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Chloromethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Cumene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Cyclohexane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Dichlorobromomethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	m & p-Xylenes	0	U		2	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Methyl acetate	0	U		10	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Methylcyclohexane	0	U		10	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Methylene Chloride	0	U		5	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	o-Xylene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-042920	Permanent	Active	4/29/2020	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,1,1-Trichloroethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,1,2-Trichloroethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,1-Dichloroethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,1-Dichloroethene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,2,4-Trichlorobenzene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,2-Dibromoethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,2-Dichlorobenzene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,2-Dichloroethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,2-Dichloropropane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,3-Dichlorobenzene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	1,4-Dichlorobenzene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	2-Hexanone	0			5	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Acetone	0			25	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Benzene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Bromoform	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Bromomethane	0			2	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Carbon tetrachloride	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Chlorobenzene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Chloroethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Chloroform	0			5	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Chloromethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	cis-1,2-Dichloroethylene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	cis-1,3-Dichloropropylene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Cumene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Cyclohexane	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Dibromochloromethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Dichlorobromomethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Dichlorodifluoromethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Ethylbenzene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Methyl acetate	0			10	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Methyl ethyl ketone	0			5	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Methyl isobutenyl ketone	0			5	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Methylcyclohexane	0			10	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Methylene Chloride	0			5	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Styrene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Tetrachloroethylene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Toluene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	trans-1,2-Dichloroethylene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	trans-1,3-Dichloropropylene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Trichloroethylene	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Trichlorofluoromethane	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Vinyl acetate	0			2	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Vinyl chloride	0			1	ug/L
MW-68	MW-68-102820	Permanent	Active	10/28/2020	17.88 - 22.88	Xylene (Total)	0			1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,1,1-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,1,2-Trichloroethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,1-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,1-Dichloroethene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,2-Dibromoethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,2-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,2-Dichloroethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,2-Dichloropropane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,3-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	1,4-Dichlorobenzene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	2-Hexanone	0	U		5	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Acetone	0	U		25	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Benzene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Bromoform	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Bromomethane	0	U		2	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Carbon tetrachloride	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Chlorobenzene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Chloroethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Chloroform	0	U		5	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Chloromethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	cis-1,3-Dichloropropylene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Cumene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Cyclohexane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Dibromochloromethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Dibromomethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Dichlorobromomethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Dichlorodifluoromethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Ethylbenzene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Methyl acetate	0	U		10	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Methyl ethyl ketone	0	U		5	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Methyl isobutenyl ketone	0	U		5	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Methylcyclohexane	0	U		10	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Methylene Chloride	0	U		5	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Styrene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Tetrachloroethylene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Toluene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Trichloroethylene	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Trichlorofluoromethane	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Vinyl acetate	0	U		2	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Vinyl chloride	0	U		1	ug/L
MW-68	MW-68-040821	Permanent	Active	4/8/2021	17.88 - 22.88	Xylene (Total)	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,1-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,1-Dichloroethene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,2-Dibromoethane	0	U		2	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,2-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,2-Dichloropropane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	2-Hexanone	0	U		5	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Acetone	194		J	25	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Benzene	117		J	1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Benzene	74		J	1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Bromoform	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Bromomethane	0	U		2	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Carbon disulfide	0	U		10	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Carbon tetrachloride	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Chlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Chloroethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Chloroform	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Chloromethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Cumene	0	U		10	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Cyclohexane	0	U		10	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Dibromochloromethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Dichlorobromomethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Ethylbenzene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	m & p-Xylenes	1.4		J	1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Methyl acetate	0	U		10	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Methyl ethyl ketone	0	U		5	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Methylcyclohexane	0	U		10	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Methylene Chloride	3.4		J	1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	o-Xylene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Styrene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Tetrachloroethylene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Toluene	35.4		J	1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Trichloroethylene	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Trichlorofluoromethane	0	U		1	ug/L
MW-69	MW-69-080218	Permanent	Active	8/2/2018	8.1 - 18.1	Vinyl chloride	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,1-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,1-Dichloroethene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,2-Dibromoethane	0	U		2	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,2-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,2-Dichloropropane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	2-Hexanone	0	U		5	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Acetone	0	U		25	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Benzene	26.1		J	1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Bromoform	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Bromomethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Carbon disulfide	0	U		10	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Carbon tetrachloride	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Chlorobenzene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Chloroethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Chloroform	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Chloromethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Cumene	0	U		10	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Cyclohexane	0	U		10	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Dibromochloromethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Dichlorobromomethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Ethylbenzene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	m & p-Xylenes	7		J	1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Methyl acetate	0	U		10	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Methyl ethyl ketone	0	U		5	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Methylcyclohexane	0	U		10	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Methylene Chloride	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	o-Xylene	2.1			1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Styrene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Tetrachloroethylene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Toluene	34.9		J	1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Trichloroethylene	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Trichlorofluoromethane	0	U		1	ug/L
MW-69	MW-69-101818	Permanent	Active	10/18/2018	8.1 - 18.1	Vinyl chloride	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,1-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,1-Dichloroethene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,2-Dibromoethane	0	U		2	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,2-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,2-Dichloropropane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	2-Hexanone	0	U		5	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Acetone	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Benzene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Bromoform	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Bromomethane	0	U		2	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Carbon disulfide	0	U		10	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Carbon tetrachloride	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Chlorobenzene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Chloroethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Chloroform	0	U	UJ	1.4	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Chloromethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Cumene	0	U		10	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Cyclohexane	0	U		10	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Dibromochloromethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Dichlorobromomethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Ethylbenzene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	m & p-Xylenes	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Methyl acetate	0	U		10	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Methyl ethyl ketone	0	U		5	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Methylcyclohexane	0	U		10	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Methylene Chloride	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	o-Xylene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Styrene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Tetrachloroethylene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Toluene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Trichloroethylene	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Trichlorofluoromethane	0	U		1	ug/L
MW-69	MW-69-042619	Permanent	Active	4/26/2019	8.1 - 18.1	Vinyl chloride	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,1-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,1-Dichloroethene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,2-Dibromoethane	0	U		2	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,2-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,2-Dichloropropane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,3-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	2-Hexanone	0	U		5	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Acetone	0	U		25	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Benzene	1.1			1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Bromoform	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Bromomethane	0	U		2	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Carbon disulfide	0	U		10	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Carbon tetrachloride	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Chlorobenzene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Chloroethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Chloroform	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Chloromethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Cumene	0	U		10	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Cyclohexane	0	U		10	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Dibromochloromethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Dichlorobromomethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Ethylbenzene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	m & p-Xylenes	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Methyl acetate	0	U		10	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Methyl ethyl ketone	0	U		5	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Methylcyclohexane	0	U		10	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Methylene Chloride	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	o-Xylene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Styrene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Tetrachloroethylene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Toluene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Trichloroethylene	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Trichlorofluoromethane	0	U		1	ug/L
MW-69	MW-69-112119	Permanent	Active	11/21/2019	8.1 - 18.1	Vinyl chloride	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,1-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,1-Dichloroethene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2,4,5-Tetrachlorobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2,4-Trichlorobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Dibromo-3-chloropropane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data**

**Symrise Colonels Island Site**

<b>Well_ID</b>	<b>SampInfoID</b>	<b>Well_Type</b>	<b>Status</b>	<b>SDate</b>	<b>Screen</b>	<b>Analyte</b>	<b>Result</b>	<b>Lab_Flag</b>	<b>Qualifier</b>	<b>RDL</b>	<b>Units</b>
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Dibromoethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Dibromoethane	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Dichlorobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Dichloropropane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,2-Diphenylhydrazine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,3,5-Trinitrobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,3-Dichlorobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,3-Dinitrobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,4-Dichlorobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,4-Dinitrobenzene	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1,4-Naphthoquinone	0	U		50	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1-Methylnaphthalene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	1-Naphthalenamine	0	U		50	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,2'-Oxybis(1-chloropropane)	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,3,4,6-Tetrachlorophenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,3-Dibromo-1-propanol phosph	0	U		500	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,3-Dichloroaniline	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4,5-T	0	U		3	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4,5-TP (Silvex)	0	U		3	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4,5-Trichlorophenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4,6-Trichlorophenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4-D	0	U		3	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4-Dichlorophenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4-Dimethylphenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4-Dinitrophenol	0	U		500	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,4-Dinitrotoluene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,6-Dichlorophenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2,6-Dinitrotoluene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Acetylaminofluorene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Chloronaphthalene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Chlorophenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Hexanone	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Methyl-5-nitroaniline	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Methylnaphthalene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Methylphenol(o-Cresol)	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Naphthalenamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Nitroaniline	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Nitrophenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	2-Picoline	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	3&4-Methylphenol(m&p Cresol)	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	3,3'-Dichlorobenzidine	0	U		200	ug/L

**Appendix B - Historical Groundwater Analytical Data**  
**Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	3,3'-Dimethylbenzidine	0	U		250	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	3-Methylcholanthrene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	3-Nitroaniline	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4,4'-DDD	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4,4'-DDE	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4,4'-DDT	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4,4'-Methylene-bis(2-chloroani	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4,6-Dinitro-2-methylphenol	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4-Aminobiphenyl	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4-Bromophenylphenyl ether	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4-Chloro-3-methylphenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4-Chloroaniline	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4-Chlorophenylphenyl ether	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4-Nitroaniline	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4-Nitrophenol	0	U		500	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	4-Nitroquinoline-n-oxide	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	5-Nitro-o-toluidine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	7,12-Dimethylbenz(a)anthracene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	a,a-Dimethylphenylethylamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Acenaphthene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Acenaphthylene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Acetone	0	U		25	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Acetophenone	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Aldrin	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	alpha-BHC	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Aniline	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Anthracene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Antimony, Total	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Aramite	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Arsenic, Total	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Atrazine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Barium, Total	10.4			5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzal chloride	0	U		500	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzaldehyde	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzidine	0	U		500	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzo(a)anthracene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzo(a)pyrene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzo(b)fluoranthene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzo(g,h,i)perylene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzo(k)fluoranthene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzoic Acid	0	U		500	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzophenone	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Benzyl alcohol	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Beryllium, Total	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	beta-BHC	0	U		0	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Biphenyl (Diphenyl)	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	bis(2-Chloroethoxy)methane	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	bis(2-Chloroethyl) ether	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	bis(2-Ethylhexyl)phthalate	0	U		60	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Bromoform	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Bromomethane	0	U		2	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Butylbenzylphthalate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Cadmium, Total	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Caprolactam	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Carbazole	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Carbon disulfide	0	U		2	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Carbon tetrachloride	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Chlordane (Technical)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Chlorobenzene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Chlorobenzilate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Chloroethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Chloroform	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Chloromethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Chromium, Total	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Chrysene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Cobalt, Total	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Copper, Total	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Cumene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Cyanide	0	U		0	mg/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Cyclohexane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	delta-BHC	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Diallate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dibenz(a,h)anthracene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dibenzo(a,e)pyrene	0	U		500	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dibenzofuran	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dibromochloromethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dichlorobromomethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dieldrin	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Diethylphthalate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dimethoate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dimethylphthalate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Di-n-butylphthalate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Di-n-octylphthalate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dinoseb	0	U		3	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Dinoseb	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Diphenyl ether (Phenyl ether)	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Diphenylamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Disulfoton	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Endosulfan I	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Endosulfan II	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Endosulfan sulfate	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Endrin	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Endrin aldehyde	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Ethyl methanesulfonate	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Ethylbenzene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Famphur	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Fluoranthene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Fluorene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	gamma-BHC (Lindane)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Heptachlor	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Heptachlor epoxide	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Hexachloro-1,3-butadiene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Hexachlorobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Hexachlorobenzene	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Hexachlorocyclopentadiene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Hexachloroethane	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Hexachlorophene	0	U		1000	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Hexachloropropene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Indeno(1,2,3-cd)pyrene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Isodrin	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Isophorone	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Isosafrole	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Kepone	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Lead, Total	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	m & p-Xylenes	0	U		2	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Mercury, Total	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methapyrilene	0	U		500	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methoxychlor	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methyl acetate	0	U		10	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methyl ethyl ketone	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methyl methanesulfonate	0	U		50	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methyl parathion	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methylcyclohexane	0	U		10	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Methylene Chloride	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Naphthalene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	n-Decane	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Nickel, Total	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Nitrobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitrosodiethylamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitrosodimethylamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitroso-di-n-butylamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitroso-di-n-propylamine	0	U		100	ug/L

Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitrosodiphenylamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitrosomethylethylamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitrosomorpholine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitrosopiperidine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	N-Nitrosopyrrolidine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	n-Octadecane	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	O,O,O-Triethylphosphorothioate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	O-Toluidine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	o-Xylene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Parathion (Ethyl parathion)	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	PCB-1016 (Aroclor 1016)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	P-Dimethylaminoazobenzene	0	U		50	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Pentachlorobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Pentachloroethane	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Pentachloronitrobenzene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Pentachlorophenol	0	U		200	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Phenacetin	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Phenanthrene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Phenol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Phorate	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	p-Phenylenediamine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Pronamide	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Pyrene	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Pyridine	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Safrole	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Selenium, Total	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Silver, Total	0	U		5	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Styrene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Sulfide	0	U		1	mg/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Sulfotepp (Thiodiphosphoric Ac	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Terpineol	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Tetrachloroethylene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Thallium, Total	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Thionazin	0	U		100	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Tin, Total	0	U		20	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Toluene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Toxaphene	0	U		0	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Trichloroethylene	0	U		1	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Trichlorofluoromethane	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Vanadium, Total	0	U		10	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Vinyl chloride	0	U		1	ug/L
MW-69	MW-69-042820	Permanent	Active	4/28/2020	8.1 - 18.1	Zinc, Total	0	U		10	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,1,1-Trichloroethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,1,2,2-Tetrachloroethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,1,2-Trichloroethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,1,2-Trichlorotrifluoroethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,1-Dichloroethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,1-Dichloroethene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,2,4-Trichlorobenzene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,2-Dibromo-3-chloropropane	0			5	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,2-Dibromoethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,2-Dichlorobenzene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,2-Dichloroethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,2-Dichloropropane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,3-Dichlorobenzene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	1,4-Dichlorobenzene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	2-Hexanone	0			5	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Acetone	0			25	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Benzene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Bromoform	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Bromomethane	0			2	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Carbon tetrachloride	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Chlorobenzene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Chloroethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Chloroform	0			5	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Chloromethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	cis-1,2-Dichloroethylene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	cis-1,3-Dichloropropylene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Cumene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Cyclohexane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Dibromochloromethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Dichlorobromomethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Dichlorodifluoromethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Ethylbenzene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Methyl acetate	0			10	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Methyl ethyl ketone	0			5	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Methyl isobutenyl ketone	0			5	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Methylcyclohexane	0			10	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Methylene Chloride	0			5	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	MTBE (Methyl tert-butyl ether)	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Styrene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Tetrachloroethylene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Toluene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	trans-1,2-Dichloroethylene	0			1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	trans-1,3-Dichloropropylene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Trichloroethylene	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Trichlorofluoromethane	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Vinyl acetate	0			2	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Vinyl chloride	0			1	ug/L
MW-69	MW-69-102720	Permanent	Active	10/27/2020	8.1 - 18.1	Xylene (Total)	0			1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,1,1-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,1,2-Trichloroethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,1-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,1-Dichloroethene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,2-Dibromoethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,2-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,2-Dichloroethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,2-Dichloropropane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,3-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	1,4-Dichlorobenzene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	2-Hexanone	0	U		5	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Acetone	0	U		25	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Benzene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Bromoform	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Bromomethane	0	U		2	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Carbon tetrachloride	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Chlorobenzene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Chloroethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Chloroform	0	U		5	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Chloromethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Cumene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Cyclohexane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Dibromochloromethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Dibromomethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Dichlorobromomethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Dichlorodifluoromethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Ethylbenzene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Methyl acetate	0	U		10	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Methyl ethyl ketone	0	U		5	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Methyl isobutenyl ketone	0	U		5	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Methylcyclohexane	0	U		10	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Methylene Chloride	0	U		5	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Styrene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Tetrachloroethylene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Toluene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Trichloroethylene	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Trichlorofluoromethane	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Vinyl acetate	0	U		2	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Vinyl chloride	0	U		1	ug/L
MW-69	MW-69-040721	Permanent	Active	4/7/2021	8.1 - 18.1	Xylene (Total)	0	U		1	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	2-Hexanone	0	U		20	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Acetone	0	U		50	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Benzene	0	U		1	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Carbon disulfide	0	U		50	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Ethylbenzene	0	U		1	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	m & p-Xylenes	0	U		2	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl ethyl ketone	0	U		20	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl isobutenyl ketone	0	U		20	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	o-Xylene	0	U		1	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Tetrachloroethylene	0	U		5	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Toluene	0	U		1	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Trichloroethylene	0	U		5	ug/L
MW-7	MW-7_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Vinyl chloride	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Acetone	246			25	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Benzene	1.2	J		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Bromoform	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Carbon disulfide	0	U		10	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Chlorobenzene	0	U		1	ug/L



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Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Chloroform	8	J		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Cumene	10.1			10	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	m & p-Xylenes	8.6		J	1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Methylene Chloride	5.3	J		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	o-Xylene	1.2			1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Styrene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Toluene	2.4		J	1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Trichloroethylene	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-70	MW-70-080218	Permanent		8/2/2018	12.9 - 22.9	Vinyl chloride	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Acetone	0	U		25	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Benzene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Bromoform	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Bromomethane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Carbon disulfide	0	U		10	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Chloroform	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Cumene	0	U		10	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	m & p-Xylenes	6.6		J	1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Methylene Chloride	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	o-Xylene	2.1			1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Styrene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Toluene	1.1		J	1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Trichloroethylene	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-70	MW-70-101818	Permanent		10/18/2018	12.9 - 22.9	Vinyl chloride	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,1,1-Trichloroethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,1,2-Trichloroethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		10	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,1-Dichloroethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,1-Dichloroethene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,2,4-Trichlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,2-Dibromoethane	0	U		2	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,2-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,2-Dichloroethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,2-Dichloropropane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,3-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	1,4-Dichlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	2-Hexanone	0	U		5	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Acetone	0	U		25	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Acetone	0	U		25	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Benzene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Benzene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Bromoform	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Bromoform	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Bromomethane	0	U		2	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Carbon disulfide	11.2		J	10	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Carbon disulfide	11.3		J	10	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Carbon tetrachloride	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Chlorobenzene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Chloroethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Chloroform	18.4			1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Chloroform	19			1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Chloromethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	cis-1,3-Dichloropropylene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Cumene	0	U		10	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Cumene	0	U		10	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Cyclohexane	0	U		10	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Dibromochloromethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Dichlorobromomethane	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Dichlorodifluoromethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Ethylbenzene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	m & p-Xylenes	2.6			1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	m & p-Xylenes	2.6			1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Methyl acetate	0	U		10	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Methyl ethyl ketone	0	U		5	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Methyl isobutenyl ketone	0	U		5	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Methylcyclohexane	0	U		10	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Methylene Chloride	6.9			1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Methylene Chloride	6.6			1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		10	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	o-Xylene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Styrene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Styrene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Tetrachloroethylene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Toluene	1.1			1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Toluene	1			1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	trans-1,3-Dichloropropylene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Trichloroethylene	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Trichloroethylene	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Trichlorofluoromethane	0	U		1	ug/L
MW-70	MW-70-112119	Permanent		11/21/2019	12.9 - 22.9	Vinyl chloride	0	U		1	ug/L
MW-70	MW-70-112119-DUP	Permanent		11/21/2019	12.9 - 22.9	Vinyl chloride	0	U		1	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,1,1-Trichloroethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,1,2,2-Tetrachloroethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,1,2-Trichloroethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,1,2-Trichlorotrifluoroethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,1-Dichloroethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,1-Dichloroethene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2,4,5-Tetrachlorobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2,4-Trichlorobenzene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2,4-Trichlorobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		125	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Dibromo-3-chloropropane	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Dibromoethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Dibromoethane	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Dichlorobenzene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Dichlorobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Dichloroethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Dichloropropane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,2-Diphenylhydrazine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,3,5-Trinitrobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,3-Dichlorobenzene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,3-Dichlorobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,3-Dinitrobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,4-Dichlorobenzene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,4-Dichlorobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,4-Dinitrobenzene	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1,4-Naphthoquinone	0	U		50	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1-Methylnaphthalene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	1-Naphthalenamine	0	U		50	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,2'-Oxybis(1-chloropropane)	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,3,4,6-Tetrachlorophenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,3-Dibromo-1-propanol phosph	0	U		500	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,3-Dichloroaniline	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4,5-T	0	U		2	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4,5-TP (Silvex)	0	U		2	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4,5-Trichlorophenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4,6-Trichlorophenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4-D	0	U		2	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4-Dichlorophenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4-Dimethylphenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4-Dinitrophenol	0	U		500	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,4-Dinitrotoluene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,6-Dichlorophenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2,6-Dinitrotoluene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Acetylaminofluorene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Chloronaphthalene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Chlorophenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Hexanone	0	U		125	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Methyl-5-nitroaniline	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Methylnaphthalene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Methylphenol(o-Cresol)	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Naphthalenamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Nitroaniline	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Nitrophenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	2-Picoline	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	3&4-Methylphenol(m&p Cresol)	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	3,3'-Dichlorobenzidine	0	U		200	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	3,3'-Dimethylbenzidine	0	U		250	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	3-Methylcholanthrene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	3-Nitroaniline	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4,4'-DDD	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4,4'-DDE	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4,4'-DDT	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4,4'-Methylene-bis(2-chloroani	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4,6-Dinitro-2-methylphenol	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4-Aminobiphenyl	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4-Bromophenylphenyl ether	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4-Chloro-3-methylphenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4-Chloroaniline	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4-Chlorophenylphenyl ether	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4-Nitroaniline	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4-Nitrophenol	0	U		500	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	4-Nitroquinoline-n-oxide	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	5-Nitro-o-toluidine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	7,12-Dimethylbenz(a)anthracene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	a,a-Dimethylphenylethylamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Acenaphthene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Acenaphthylene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Acetone	0	U		625	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Acetophenone	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Aldrin	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	alpha-BHC	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Aniline	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Anthracene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Antimony, Total	0	U		5	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Aramite	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Atrazine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Barium, Total	20.1			5	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzal chloride	0	U		500	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzaldehyde	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzidine	0	U		500	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzo(a)anthracene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzo(a)pyrene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzo(b)fluoranthene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzo(g,h,i)perylene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzo(k)fluoranthene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzoic Acid	0	U		500	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzophenone	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Benzyl alcohol	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Beryllium, Total	0.98			0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	beta-BHC	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Biphenyl (Diphenyl)	0	U		100	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	bis(2-Chloroethoxy)methane	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	bis(2-Chloroethyl) ether	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	bis(2-Ethylhexyl)phthalate	0	U		60	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Bromoform	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Bromomethane	0	U		50	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Butylbenzylphthalate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Cadmium, Total	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Caprolactam	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Carbazole	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Carbon disulfide	0	U		50	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Carbon tetrachloride	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Chlordane (Technical)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Chlorobenzene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Chlorobenzilate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Chloroethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Chloroform	0	U		125	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Chloromethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Chromium, Total	0	U		5	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Chrysene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	cis-1,2-Dichloroethylene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	cis-1,3-Dichloropropylene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Cobalt, Total	8.7			5	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Copper, Total	0	U		5	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Cumene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Cyanide	0	U		0	mg/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Cyclohexane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	delta-BHC	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Diallate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dibenz(a,h)anthracene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dibenzo(a,e)pyrene	0	U		500	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dibenzofuran	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dibromochloromethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dichlorobromomethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dichlorodifluoromethane	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dieldrin	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Diethylphthalate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dimethoate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dimethylphthalate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Di-n-butylphthalate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Di-n-octylphthalate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dinoseb	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Dinoseb	0	U		2	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Diphenyl ether (Phenyl ether)	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Diphenylamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Disulfoton	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Endosulfan I	0	U		0	ug/L

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Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Endosulfan II	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Endosulfan sulfate	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Endrin	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Endrin aldehyde	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Ethyl methanesulfonate	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Ethylbenzene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Famphur	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Fluoranthene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Fluorene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	gamma-BHC (Lindane)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Heptachlor	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Heptachlor epoxide	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Hexachloro-1,3-butadiene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Hexachlorobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Hexachlorobenzene	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Hexachlorocyclopentadiene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Hexachloroethane	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Hexachlorophene	0	U		1000	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Hexachloropropene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Indeno(1,2,3-cd)pyrene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Isodrin	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Isophorone	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Isosafrole	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Kepone	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Lead, Total	0	U		1	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	m & p-Xylenes	0	U		50	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Mercury, Total	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methapyrilene	0	U		500	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methoxychlor	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methyl acetate	0	U		250	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methyl ethyl ketone	0	U		125	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methyl isobutenyl ketone	0	U		125	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methyl methanesulfonate	0	U		50	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methyl parathion	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methylcyclohexane	0	U		250	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Methylene Chloride	0	U		125	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	MTBE (Methyl tert-butyl ether)	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Naphthalene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	n-Decane	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Nickel, Total	17.7			5	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Nitrobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitrosodiethylamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitrosodimethylamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitroso-di-n-butylamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitroso-di-n-propylamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitrosodiphenylamine	0	U		100	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitrosomethylethylamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitrosomorpholine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitrosopiperidine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	N-Nitrosopyrrolidine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	n-Octadecane	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	O,O,O-Triethylphosphorothioate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	O-Toluidine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	o-Xylene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Parathion (Ethyl parathion)	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	PCB-1016 (Aroclor 1016)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	PCB-1221 (Aroclor 1221)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	PCB-1232 (Aroclor 1232)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	PCB-1242 (Aroclor 1242)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	PCB-1248 (Aroclor 1248)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	PCB-1254 (Aroclor 1254)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	PCB-1260 (Aroclor 1260)	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	P-Dimethylaminoazobenzene	0	U		50	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Pentachlorobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Pentachloroethane	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Pentachloronitrobenzene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Pentachlorophenol	0	U		200	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Phenacetin	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Phenanthrene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Phenol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Phorate	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	p-Phenylenediamine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Pronamide	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Pyrene	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Pyridine	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Safrole	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Selenium, Total	0	U		5	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Silver, Total	0	U		5	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Styrene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Sulfide	0	U		1	mg/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Sulfotepp (Thiodiphosphoric Ac	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Terpineol	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Tetrachloroethylene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Thallium, Total	0	U		1	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Thionazin	0	U		100	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Tin, Total	0	U		20	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Toluene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Toxaphene	0	U		0	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	trans-1,2-Dichloroethylene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	trans-1,3-Dichloropropylene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Trichloroethylene	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Trichlorofluoromethane	0	U		25	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Vanadium, Total	0	U		10	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Vinyl chloride	0	U		25	ug/L
MW-70	MW-70-042920	Permanent		4/29/2020	12.9 - 22.9	Zinc, Total	66.3			10	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	2-Hexanone	0	U		100	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Acetone	0	U		250	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Benzene	0	U		5	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Carbon disulfide	0	U		250	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Ethylbenzene	0	U		5	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	m & p-Xylenes	0	U		10	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl ethyl ketone	0	U		100	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Methyl isobutenyl ketone	0	U		100	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	o-Xylene	0	U		5	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Tetrachloroethylene	0	U		5	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Toluene	0	U		5	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Trichloroethylene	0	U		5	ug/L
MW-8	MW-8_1/20/05_NM	Permanent	Abandoned	1/20/2005	-	Vinyl chloride	0	U		5	ug/L
MW-9	MW-9_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	2-Hexanone	1500				ug/L
MW-9	MW-9_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Acetone	25000				ug/L
MW-9	MW-9_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Benzene	79				ug/L
MW-9	MW-9_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Methyl ethyl ketone	19000				ug/L
MW-9	MW-9_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Methyl isobutenyl ketone	1300				ug/L
MW-9	MW-9_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Toluene	88				ug/L
MW-9	MW-9_1/20/05_NM	Permanent	Abandoned	1/20/2005	1 - 6	Xylenes, total	51				ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	2-Hexanone	0	U		200	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Acetone	2800				ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Benzene	21				ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Carbon disulfide	0	U		500	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	cis-1,2-Dichloroethylene	0	U		10	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Ethylbenzene	0	U		10	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	m & p-Xylenes	0	U		20	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Methyl ethyl ketone	2600				ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Methyl isobutenyl ketone	200				ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	o-Xylene	0	U		10	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Toluene	21				ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	trans-1,2-Dichloroethylene	0	U		10	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-9	MW-9_2/2/05_NM	Permanent	Abandoned	2/2/2005	1 - 6	Vinyl chloride	0	U		10	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	1,4-Dichlorobenzene	23000				ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	2-Hexanone	1600				ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Acetone	68				ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Bromomethane	0	U		500	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Chloromethane	0	U		10	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Cumene	27				ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Dichlorodifluoromethane	0	U		10	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Methyl ethyl ketone	1400				ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Methyl isobutenyl ketone	31000				ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Methylene chloride	0	U		10	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Styrene	0	U		5	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Tetrachloroethylene	60				ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Toluene	0	U		10	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Trichlorofluoromethane	0	U		10	ug/L
MW-9	MW-9_4/20/05_NM	Permanent	Abandoned	4/20/2005	1 - 6	Vinyl chloride	0	U		10	ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	2-Hexanone	0	U		10	ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	Acetone	49				ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	Benzene	3.5				ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	Carbon disulfide	0	U		1	ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	cis-1,2-Dichloroethylene	0	U		1	ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	Ethylbenzene	0	U		1	ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	Toluene	1.4				ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	trans-1,2-Dichloroethylene	0	U		1	ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-9	MW-9_1/30/06_NM	Permanent	Abandoned	1/30/2006	1 - 6	Vinyl chloride	0	U		1	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	2-Hexanone	0	U		0.6	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Acetone	0	U		2	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Benzene	0	U		0.2	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Carbon disulfide	0	U		0.9	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	cis-1,2-Dichloroethylene	0	U		0.2	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Ethylbenzene	0	U		0.3	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	m & p-Xylenes	0	U		0.3	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Methyl ethyl ketone	0	U		2	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Methyl isobutenyl ketone	0	U		2	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	o-Xylene	0	U		0.2	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Toluene	0	U		0.2	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	trans-1,2-Dichloroethylene	0	U		0.2	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-9	MW-9_1/30/07_NM	Permanent	Abandoned	1/30/2007	1 - 6	Vinyl chloride	0	U		0.4	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	2-Hexanone	0	U		0.7	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Acetone	4.6	J			ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Benzene	1.9				ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Carbon disulfide	0	U		0.48	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	cis-1,2-Dichloroethylene	0	U		0.41	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Ethylbenzene	0	U		0.43	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	m & p-Xylenes	1.5				ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Methyl ethyl ketone	0	U		1.2	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Methyl isobutenyl ketone	0	U		1.5	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	o-Xylene	0	U		0.39	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Toluene	0.62	J			ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	trans-1,2-Dichloroethylene	0	U		0.47	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-9	MW-9_4/20/09_NM	Permanent	Abandoned	4/20/2009	1 - 6	Vinyl chloride	0	U		0.48	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1,1-Trichloroethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1,2-Trichloroethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1-Dichloroethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,1-Dichloroethene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dibromoethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dichloroethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,2-Dichloropropane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,3-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	1,4-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	2-Hexanone	0	U		10	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Acetone	71				ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Benzene	560				ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Bromoform	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Bromomethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Carbon disulfide	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Carbon tetrachloride	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Chlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Chloroethane	0	U		10	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Chloroform	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Chloromethane	0	U		10	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Cumene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Cyclohexane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Dibromochloromethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Dichlorobromomethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Dichlorodifluoromethane	0	U		10	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Ethylbenzene	6.1				ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	m & p-Xylenes	72				ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methyl acetate	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methyl ethyl ketone	0	U		50	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methyl isobutenyl ketone	330				ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methylcyclohexane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Methylene chloride	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	o-Xylene	5.4				ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Styrene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Toluene	27				ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Trichlorofluoromethane	0	U		5	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Trichlorotrifluoroethane	0	U		10	ug/L
MW-9	MW-9_7/17/15_NM	Permanent	Abandoned	7/17/2015	1 - 6	Vinyl chloride	0	U		2	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,1,1-Trichloroethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,1,2-Trichloroethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,1-Dichloroethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,1-Dichloroethene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,2-Dibromoethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,2-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,2-Dichloroethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,2-Dichloropropane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,3-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	1,4-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	2-Hexanone	0	U		10	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Acetone	0	U		50	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Benzene	18				ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Bromoform	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Bromomethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Carbon disulfide	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Carbon tetrachloride	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Chlorobenzene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Chloroethane	0	U		10	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Chloroform	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Chloromethane	0	U		10	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Cumene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Cyclohexane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Dibromochloromethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Dichlorobromomethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Dichlorodifluoromethane	0	U		10	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Ethylbenzene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	m & p-Xylenes	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Methyl acetate	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Methyl ethyl ketone	0	U		50	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Methyl isobutenyl ketone	0	U		10	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Methylcyclohexane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Methylene chloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	o-Xylene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Styrene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Toluene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Trichlorofluoromethane	0	U		5	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Trichlorotrifluoroethane	0	U		10	ug/L
MW-9	MW-9_7/26/16_NM	Permanent	Abandoned	7/26/2016	1 - 6	Vinyl chloride	0	U		2	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,1,1-Trichloroethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,1,2-Trichloroethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,1-Dichloroethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,1-Dichloroethene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,2,4-Trichlorobenzene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,2-Dibromoethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,2-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,2-Dichloroethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,2-Dichloropropane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,3-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	1,4-Dichlorobenzene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	2-Hexanone	0	U		10	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Acetone	0	U		50	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Benzene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Bromoform	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Bromomethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Carbon disulfide	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Carbon tetrachloride	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Chlorobenzene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Chloroethane	0	U		10	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Chloroform	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Chloromethane	0	U		10	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	cis-1,2-Dichloroethylene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	cis-1,3-Dichloropropylene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Cumene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Cyclohexane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Dibromochloromethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Dichlorobromomethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Dichlorodifluoromethane	0	U		10	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Ethylbenzene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	m & p-Xylenes	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Methyl acetate	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Methyl isobutenyl ketone	0	U		10	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Methylcyclohexane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Methylene chloride	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	o-Xylene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Styrene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Tetrachloroethylene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Toluene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	trans-1,2-Dichloroethylene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	trans-1,3-Dichloropropylene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Trichloroethylene	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Trichlorofluoromethane	0	U		5	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Trichlorotrifluoroethane	0	U		10	ug/L
MW-9	MW-9_8/23/16_NM	Permanent	Abandoned	8/23/2016	1 - 6	Vinyl chloride	0	U		2	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		100	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	0	U		250	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		100	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		100	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		50	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		10	ug/L
N20	N20_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	0	U		20	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	0	U		25	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	2.8			1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		10	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
N40	N40_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	0	U		2	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	15			10	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	130			25	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	31			25	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	3.9			1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	1			1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		10	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	98			10	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	22			10	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	4.5			1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	2.6			1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	6.1			2	ug/L
S20	S20_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	0	U		2	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	2-Hexanone	0	U		10	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Acetone	0	U		50	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Benzene	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Carbon disulfide	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Cumene	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Ethylbenzene	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	m & p-Xylenes	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl acetate	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	o-Xylene	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Tetrachloroethylene	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Toluene	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Trichloroethylene	0	U		5	ug/L
TB-1	TB-1_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Vinyl chloride	0	U		2	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	2-Hexanone	0	U		10	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Acetone	0	U		50	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Benzene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Carbon disulfide	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Cumene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Ethylbenzene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	m & p-Xylenes	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl acetate	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	o-Xylene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Tetrachloroethylene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Toluene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Trichloroethylene	0	U		5	ug/L
TB-11	TB-11_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Vinyl chloride	0	U		2	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	2-Hexanone	0	U		50	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	2-Hexanone	0	U		130	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	2-Hexanone	0	U		130	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Acetone	0	U		100	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Acetone	0	U		250	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Acetone	0	U		250	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Benzene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Benzene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Benzene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Carbon disulfide	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Carbon disulfide	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Carbon disulfide	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	cis-1,2-Dichloroethylene	120	J			ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	cis-1,2-Dichloroethylene	110	J			ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	cis-1,2-Dichloroethylene	120	J			ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Ethylbenzene	2.2	J			ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Ethylbenzene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Ethylbenzene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	m & p-Xylenes	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	m & p-Xylenes	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	m & p-Xylenes	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl acetate	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Methyl acetate	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl acetate	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl ethyl ketone	0	U		20	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl ethyl ketone	0	U		50	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl isobutenyl ketone	0	U		50	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl isobutenyl ketone	0	U		130	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Methyl isobutenyl ketone	0	U		130	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	o-Xylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	o-Xylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	o-Xylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Tetrachloroethylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Tetrachloroethylene	94	J			ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Tetrachloroethylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Toluene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Toluene	2.1	J			ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Toluene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	trans-1,2-Dichloroethylene	0	U		2	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Trichloroethylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Trichloroethylene	14	J			ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Trichloroethylene	0	U		5	ug/L
TB-16	TB-16_7/21/15_(20-20)_DUP	Temp	Temp	7/21/2015	20 - 27	Vinyl chloride	0	U		5	ug/L
TB-16	TB-16_7/21/15_(27-27)_NM	Temp	Temp	7/21/2015	20 - 27	Vinyl chloride	0	U		2	ug/L
TB-16	TB-16_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Vinyl chloride	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	2-Hexanone	0	U		50	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	2-Hexanone	0	U		130	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Acetone	0	U		100	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Acetone	0	U		250	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Benzene	0	U		5	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Benzene	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Carbon disulfide	0	U		5	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Carbon disulfide	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	cis-1,2-Dichloroethylene	570				ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	cis-1,2-Dichloroethylene	170	J			ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Ethylbenzene	0	U		2	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Ethylbenzene	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Methyl acetate	0	U		5	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Methyl acetate	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Methyl ethyl ketone	0	U		20	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Methyl isobutenyl ketone	0	U		50	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Methyl isobutenyl ketone	0	U		130	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	o-Xylene	0	U		5	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	o-Xylene	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Tetrachloroethylene	170				ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Tetrachloroethylene	320	J			ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Toluene	2.4				ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Toluene	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	trans-1,2-Dichloroethylene	0	U		2	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Trichloroethylene	730				ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Trichloroethylene	60	J			ug/L
TB-17	TB-17_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	-	Vinyl chloride	0	U		2	ug/L
TB-17	TB-17_7/22/15_(20-20)_NM	Temp	Temp	7/22/2015	-	Vinyl chloride	0	U		5	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	2-Hexanone	0	U		50	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Acetone	0	U		100	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Benzene	0	U		5	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Carbon disulfide	0	U		5	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	cis-1,2-Dichloroethylene	440				ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Ethylbenzene	0	U		2	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	m & p-Xylenes	0	U		5	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl acetate	0	U		5	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl ethyl ketone	0	U		20	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Methyl isobutenyl ketone	0	U		50	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	o-Xylene	0	U		5	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Tetrachloroethylene	0	U		2	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Toluene	0	U		2	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	trans-1,2-Dichloroethylene	0	U		2	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Trichloroethylene	0	U		2	ug/L
TB-18	TB-18_7/21/15_(20-20)_NM	Temp	Temp	7/21/2015	20 - 27	Vinyl chloride	13				ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	2-Hexanone	0	U		50	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Acetone	0	U		100	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Benzene	0	U		5	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Carbon disulfide	0	U		5	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	cis-1,2-Dichloroethylene	2.7	J			ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Ethylbenzene	0	U		2	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	m & p-Xylenes	0	U		5	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Methyl acetate	0	U		5	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Methyl ethyl ketone	0	U		20	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Methyl isobutenyl ketone	0	U		50	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	o-Xylene	0	U		5	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Tetrachloroethylene	0	U		2	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Toluene	0	U		2	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	trans-1,2-Dichloroethylene	0	U		2	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Trichloroethylene	0	U		2	ug/L
TB-18	TB-18_7/22/15_(27-27)_NM	Temp	Temp	7/22/2015	20 - 27	Vinyl chloride	0	U		2	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	2-Hexanone	0	U		10	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	2-Hexanone	0	U		10	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	2-Hexanone	0	U		10	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	2-Hexanone	0	U		10	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Acetone	0	U		50	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Acetone	0	U		50	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Acetone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Acetone	0	U		50	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Benzene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Benzene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Benzene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Benzene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Carbon disulfide	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Carbon disulfide	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Carbon disulfide	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Carbon disulfide	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Cumene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Cumene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Cumene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Cumene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Ethylbenzene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Ethylbenzene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Ethylbenzene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Ethylbenzene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Methyl acetate	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Methyl acetate	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Methyl acetate	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Methyl acetate	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	o-Xylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	o-Xylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	o-Xylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	o-Xylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Toluene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Toluene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Toluene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Toluene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Trichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Trichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Trichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Trichloroethylene	0	U		5	ug/L
TB-19	TB-19_9/9/15_(38-42)_DUP	Temp	Temp	9/9/2015	-	Vinyl chloride	0	U		2	ug/L
TB-19	TB-19_9/9/15_(38-42)_NM	Temp	Temp	9/9/2015	-	Vinyl chloride	0	U		2	ug/L
TB-19	TB-19_9/9/15_(26-30)_NM	Temp	Temp	9/9/2015	-	Vinyl chloride	0	U		2	ug/L
TB-19	TB-19_9/9/15_(15-20)_NM	Temp	Temp	9/9/2015	-	Vinyl chloride	0	U		2	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	2-Hexanone	0	U		10	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Acetone	0	U		50	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Benzene	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Carbon disulfide	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	cis-1,2-Dichloroethylene	490				ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Cumene	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Ethylbenzene	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	m & p-Xylenes	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl acetate	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl ethyl ketone	0	U		50	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Methyl isobutenyl ketone	0	U		10	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	o-Xylene	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Tetrachloroethylene	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Toluene	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Trichloroethylene	0	U		5	ug/L
TB-2	TB-2_11/19/13_NM	Temp	Temp	11/19/2013	2 - 7	Vinyl chloride	11				ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	2-Hexanone	0	U		10	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	2-Hexanone	0	U		10	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	2-Hexanone	0	U		10	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	2-Hexanone	0	U		10	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Acetone	0	U		50	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Acetone	0	U		50	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Acetone	0	U		50	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Acetone	0	U		50	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Benzene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Benzene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Benzene	370				ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Benzene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Carbon disulfide	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Carbon disulfide	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Carbon disulfide	18				ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Carbon disulfide	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Cumene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Cumene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Cumene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Cumene	24				ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Ethylbenzene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Ethylbenzene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Ethylbenzene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Ethylbenzene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	m & p-Xylenes	47				ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Methyl acetate	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Methyl acetate	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Methyl acetate	0	U		5	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Methyl acetate	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	o-Xylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	o-Xylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	o-Xylene	6.5				ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	o-Xylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Toluene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Toluene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Toluene	11				ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Toluene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Trichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Trichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Trichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Trichloroethylene	0	U		5	ug/L
TB-20	TB-20_9/11/15_(26-30)_NM	Temp	Temp	9/11/2015	-	Vinyl chloride	0	U		2	ug/L
TB-20	TB-20_9/11/15_(38-42)_NM	Temp	Temp	9/11/2015	-	Vinyl chloride	0	U		2	ug/L
TB-20	TB-20_9/11/15_(6-10)_NM	Temp	Temp	9/11/2015	-	Vinyl chloride	0	U		2	ug/L
TB-20	TB-20_9/11/15_(15-20)_NM	Temp	Temp	9/11/2015	-	Vinyl chloride	0	U		2	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	480				ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	680				ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Toluene	7.6				ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	86				ug/L
TB-21	TB-21_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-21	TB-21_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-21	TB-21_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	5.1				ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Acetone	52				ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	27				ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	25				ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	1000				ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	9.1				ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	140				ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Toluene	6				ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	24				ug/L
TB-22	TB-22_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-22	TB-22_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-22	TB-22_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-22	TB-22_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	8				ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	36				ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	220				ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	12				ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-23	TB-23_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-23	TB-23_9/10/15_(38-42)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-23	TB-23_9/10/15_(26-30)_DUP	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-23	TB-23_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	3.7				ug/L
TB-23	TB-23_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	8.8				ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	2-Hexanone	0	U		10	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Acetone	0	U		50	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Benzene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Carbon disulfide	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	15				ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	cis-1,2-Dichloroethylene	400				ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Cumene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Ethylbenzene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl acetate	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	o-Xylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Toluene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-24	TB-24_9/10/15_(36-40)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-24	TB-24_9/10/15_(26-30)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-24	TB-24_9/10/15_(6-10)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	0	U		2	ug/L
TB-24	TB-24_9/10/15_(15-20)_NM	Temp	Temp	9/10/2015	-	Vinyl chloride	7.8				ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	2-Hexanone	0	U		10	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	2-Hexanone	0	U		10	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	2-Hexanone	0	U		10	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Acetone	0	U		50	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Acetone	0	U		50	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Acetone	0	U		50	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Benzene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Benzene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Benzene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Carbon disulfide	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Carbon disulfide	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Carbon disulfide	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	cis-1,2-Dichloroethylene	130				ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	cis-1,2-Dichloroethylene	640				ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Cumene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Cumene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Cumene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Ethylbenzene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Ethylbenzene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Ethylbenzene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Methyl acetate	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Methyl acetate	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Methyl acetate	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	o-Xylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	o-Xylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	o-Xylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Toluene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Toluene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Toluene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Trichloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Trichloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Trichloroethylene	0	U		5	ug/L
TB-25	TB-25_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Vinyl chloride	4.5				ug/L
TB-25	TB-25_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Vinyl chloride	0	U		2	ug/L
TB-25	TB-25_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Vinyl chloride	3				ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	2-Hexanone	0	U		10	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	2-Hexanone	0	U		10	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	2-Hexanone	0	U		10	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	2-Hexanone	0	U		10	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Acetone	0	U		50	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Acetone	0	U		50	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Acetone	0	U		50	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Acetone	0	U		50	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Benzene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Benzene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Benzene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Benzene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Carbon disulfide	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Carbon disulfide	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Carbon disulfide	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Carbon disulfide	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	cis-1,2-Dichloroethylene	280				ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	cis-1,2-Dichloroethylene	230				ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	cis-1,2-Dichloroethylene	12				ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Cumene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Cumene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Cumene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Cumene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Ethylbenzene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Ethylbenzene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Ethylbenzene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Ethylbenzene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Methyl acetate	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Methyl acetate	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Methyl acetate	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Methyl acetate	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	o-Xylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	o-Xylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	o-Xylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	o-Xylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Toluene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Toluene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Toluene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Toluene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Trichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Trichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Trichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Trichloroethylene	0	U		5	ug/L
TB-26	TB-26_10/31/15_(16-20)_NM	Temp	Temp	10/31/2015	-	Vinyl chloride	4				ug/L
TB-26	TB-26_10/31/15_(6-10)_NM	Temp	Temp	10/31/2015	-	Vinyl chloride	0	U		2	ug/L
TB-26	TB-26_10/31/15_(26-30)_NM	Temp	Temp	10/31/2015	-	Vinyl chloride	0	U		2	ug/L
TB-26	TB-26_10/31/15_(16-20)_DUP	Temp	Temp	10/31/2015	-	Vinyl chloride	4.5				ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	2-Hexanone	0	U		100	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	2-Hexanone	0	U		10	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	2-Hexanone	0	U		10	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	2-Hexanone	0	U		10	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Acetone	0	U		50	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Acetone	0	U		500	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Acetone	0	U		50	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Acetone	0	U		50	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Benzene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Benzene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Benzene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Benzene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Carbon disulfide	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Carbon disulfide	0	U		5	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Carbon disulfide	0	U		50	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Carbon disulfide	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	cis-1,2-Dichloroethylene	150				ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	cis-1,2-Dichloroethylene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	cis-1,2-Dichloroethylene	400				ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Cumene	21				ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Cumene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Cumene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Cumene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Ethylbenzene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Ethylbenzene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Ethylbenzene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Ethylbenzene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	m & p-Xylenes	6.7				ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	m & p-Xylenes	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Methyl acetate	0	U		5	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Methyl acetate	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Methyl acetate	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Methyl acetate	0	U		5	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Methyl ethyl ketone	0	U		500	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Methyl isobutenyl ketone	0	U		100	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	o-Xylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	o-Xylene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	o-Xylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	o-Xylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Tetrachloroethylene	280				ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Tetrachloroethylene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Toluene	15				ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Toluene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Toluene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Toluene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	trans-1,2-Dichloroethylene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Trichloroethylene	130				ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Trichloroethylene	0	U		50	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Trichloroethylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Trichloroethylene	0	U		5	ug/L
TB-28	TB-28_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Vinyl chloride	0	U		2	ug/L
TB-28	TB-28_11/1/15_(36-40)_NM	Temp	Temp	11/1/2015	-	Vinyl chloride	0	U		20	ug/L
TB-28	TB-28_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Vinyl chloride	0	U		2	ug/L
TB-28	TB-28_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Vinyl chloride	8				ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	2-Hexanone	0	U		10	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	2-Hexanone	0	U		10	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	2-Hexanone	62				ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Acetone	0	U		50	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Acetone	0	U		50	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Acetone	390				ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Benzene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Benzene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Benzene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Carbon disulfide	0	U		5	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Carbon disulfide	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Carbon disulfide	0	U		5	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	cis-1,2-Dichloroethylene	370				ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Cumene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Cumene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Cumene	12				ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Ethylbenzene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Ethylbenzene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Ethylbenzene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	m & p-Xylenes	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Methyl acetate	0	U		5	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Methyl acetate	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Methyl acetate	0	U		5	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Methyl ethyl ketone	0	U		50	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Methyl isobutenyl ketone	16				ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	o-Xylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	o-Xylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	o-Xylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Tetrachloroethylene	25				ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Tetrachloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Toluene	11				ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Toluene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Toluene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Trichloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Trichloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Trichloroethylene	0	U		5	ug/L
TB-29	TB-29_11/1/15_(16-20)_NM	Temp	Temp	11/1/2015	-	Vinyl chloride	0	U		2	ug/L
TB-29	TB-29_11/1/15_(26-30)_NM	Temp	Temp	11/1/2015	-	Vinyl chloride	0	U		2	ug/L
TB-29	TB-29_11/1/15_(6-10)_NM	Temp	Temp	11/1/2015	-	Vinyl chloride	0	U		2	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	2-Hexanone	0	U		10	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	2-Hexanone	0	U		10	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Acetone	0	U		50	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Acetone	0	U		50	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Benzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Benzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Bromoform	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Bromoform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Bromomethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Bromomethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Carbon disulfide	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Carbon disulfide	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Chlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Chlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Chloroethane	0	U		10	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Chloroethane	0	U		10	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Chloroform	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Chloroform	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Chloromethane	0	U		10	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Chloromethane	0	U		10	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	cis-1,2-Dichloroethylene	170				ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Cumene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Cumene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Cyclohexane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Cyclohexane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Ethylbenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Ethylbenzene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methyl acetate	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methyl acetate	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methylene chloride	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methylene chloride	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	o-Xylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	o-Xylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Styrene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Styrene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Toluene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Toluene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Trichloroethylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Trichloroethylene	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-30	TB-30_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Vinyl chloride	0	U		2	ug/L
TB-30	TB-30_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Vinyl chloride	4.9				ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	2-Hexanone	0	U		10	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Acetone	0	U		50	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Benzene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Bromoform	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Bromomethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Carbon disulfide	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Chlorobenzene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Chloroethane	0	U		10	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Chloroform	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Chloromethane	0	U		10	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Cumene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Cyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Ethylbenzene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Methyl acetate	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Methylene chloride	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	o-Xylene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Styrene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Toluene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Trichloroethylene	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-30	TB-30_2/24/16_(26-30)_NM	Temp	Temp	2/24/2016	-	Vinyl chloride	0	U		2	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	2-Hexanone	0	U		10	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	2-Hexanone	0	U		10	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	2-Hexanone	0	U		10	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	2-Hexanone	0	U		10	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Acetone	53.86				ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Acetone	0	U		50	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Acetone	0	U		50	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Acetone	60.4				ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Benzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Benzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Benzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Benzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Bromoform	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Bromoform	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Bromoform	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Bromoform	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Bromomethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Bromomethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Bromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Bromomethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Carbon disulfide	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Carbon disulfide	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Carbon disulfide	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Carbon disulfide	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Chlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Chlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Chlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Chlorobenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Chloroethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Chloroethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Chloroethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Chloroethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Chloroform	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Chloroform	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Chloroform	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Chloroform	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Chloromethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Chloromethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Chloromethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Chloromethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	cis-1,2-Dichloroethylene	14.85				ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Cumene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Cumene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Cumene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Cumene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Cyclohexane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Cyclohexane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Cyclohexane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Cyclohexane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Dichlorobromomethane	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Ethylbenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Ethylbenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Ethylbenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Ethylbenzene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Methyl acetate	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methyl acetate	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methyl acetate	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methyl acetate	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Methylene chloride	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methylene chloride	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methylene chloride	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methylene chloride	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	o-Xylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	o-Xylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	o-Xylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	o-Xylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Styrene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Styrene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Styrene	0	U		5	ug/L

Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Styrene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Toluene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Toluene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Toluene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Toluene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Trichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Trichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Trichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Trichloroethylene	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-31	TB-31_3/12/16_(33-37)_NM	Temp	Temp	3/12/2016	-	Vinyl chloride	0	U		2	ug/L
TB-31	TB-31_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Vinyl chloride	0	U		2	ug/L
TB-31	TB-31_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Vinyl chloride	0	U		2	ug/L
TB-31	TB-31_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Vinyl chloride	0	U		2	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	2-Hexanone	0	U		10	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	2-Hexanone	0	U		10	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	2-Hexanone	0	U		10	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Acetone	0	U		50	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Acetone	0	U		50	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Acetone	228.35				ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Benzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Benzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Benzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Bromoform	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Bromoform	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Bromoform	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Bromomethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Bromomethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Bromomethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Carbon disulfide	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Carbon disulfide	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Carbon disulfide	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Carbon tetrachloride	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Chlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Chlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Chlorobenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Chloroethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Chloroethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Chloroethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Chloroform	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Chloroform	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Chloroform	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Chloromethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Chloromethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Chloromethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	cis-1,2-Dichloroethylene	6.29				ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Cumene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Cumene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Cumene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Cyclohexane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Cyclohexane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Cyclohexane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Ethylbenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Ethylbenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Ethylbenzene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methyl acetate	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methyl acetate	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methyl acetate	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Methylene chloride	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Methylene chloride	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Methylene chloride	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	o-Xylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	o-Xylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	o-Xylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Styrene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Styrene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Styrene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Toluene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Toluene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Toluene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Trichloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Trichloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Trichloroethylene	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-32	TB-32_3/12/16_(23-27)_NM	Temp	Temp	3/12/2016	-	Vinyl chloride	0	U		2	ug/L
TB-32	TB-32_3/12/16_(6-10)_NM	Temp	Temp	3/12/2016	-	Vinyl chloride	0	U		2	ug/L
TB-32	TB-32_3/12/16_(16-20)_NM	Temp	Temp	3/12/2016	-	Vinyl chloride	0	U		2	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data**  
**Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	2-Hexanone	0	U		10	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	2-Hexanone	0	U		10	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	2-Hexanone	0	U		10	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Acetone	0	U		50	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Acetone	60.55				ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Acetone	0	U		50	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Benzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Benzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Benzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Bromoform	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Bromoform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Bromoform	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Bromomethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Bromomethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Bromomethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Carbon disulfide	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Carbon disulfide	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Carbon disulfide	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Chlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Chlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Chlorobenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Chloroethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Chloroethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Chloroethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Chloroform	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Chloroform	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Chloroform	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Chloromethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Chloromethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Chloromethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	cis-1,2-Dichloroethylene	36.61				ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Cumene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Cumene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Cumene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Cyclohexane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Cyclohexane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Cyclohexane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Ethylbenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Ethylbenzene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Ethylbenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methyl acetate	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methyl acetate	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methyl acetate	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methylene chloride	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methylene chloride	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methylene chloride	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	o-Xylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	o-Xylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	o-Xylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Styrene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Styrene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Styrene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Toluene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Toluene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Toluene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Trichloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Trichloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Trichloroethylene	0	U		5	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-33	TB-33_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Vinyl chloride	0	U		2	ug/L
TB-33	TB-33_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Vinyl chloride	0	U		2	ug/L
TB-33	TB-33_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Vinyl chloride	0	U		2	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	2-Hexanone	0	U		10	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	2-Hexanone	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	2-Hexanone	0	U		10	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Acetone	0	U		50	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Acetone	176.07				ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Acetone	0	U		50	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Benzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Benzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Benzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Bromoform	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Bromoform	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Bromoform	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Bromomethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Bromomethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Bromomethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Carbon disulfide	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Carbon disulfide	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Carbon disulfide	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Chlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Chlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Chlorobenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Chloroethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Chloroethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Chloroethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Chloroform	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Chloroform	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Chloroform	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Chloromethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Chloromethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Chloromethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	cis-1,2-Dichloroethylene	121.8				ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Cumene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Cumene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Cumene	11.78				ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Cyclohexane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Cyclohexane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Cyclohexane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Dibromochloromethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Ethylbenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Ethylbenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Ethylbenzene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methyl acetate	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methyl acetate	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methyl acetate	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Methylene chloride	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Methylene chloride	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Methylene chloride	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	o-Xylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	o-Xylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	o-Xylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Styrene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Styrene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Styrene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Tetrachloroethylene	65.7				ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Toluene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Toluene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Toluene	8.97				ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Trichloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Trichloroethylene	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Trichloroethylene	25.16				ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-34	TB-34_3/13/16_(26-30)_NM	Temp	Temp	3/13/2016	-	Vinyl chloride	0	U		2	ug/L
TB-34	TB-34_3/13/16_(6-10)_NM	Temp	Temp	3/13/2016	-	Vinyl chloride	0	U		2	ug/L
TB-34	TB-34_3/13/16_(16-20)_NM	Temp	Temp	3/13/2016	-	Vinyl chloride	0	U		2	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	2-Hexanone	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	2-Hexanone	0	U		10	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	2-Hexanone	180				ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	2-Hexanone	0	U		10	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	2-Hexanone	97				ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Acetone	320				ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Acetone	220				ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Acetone	2800				ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Acetone	0	U		50	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Acetone	3200				ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Benzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Benzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Benzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Benzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Benzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Bromoform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Bromoform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Bromoform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Bromoform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Bromoform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Bromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Bromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Bromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Bromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Bromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Carbon disulfide	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Carbon disulfide	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Carbon disulfide	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Carbon disulfide	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Carbon disulfide	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Chlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Chlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Chlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Chlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Chlorobenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Chloroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Chloroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Chloroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Chloroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Chloroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Chloroform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Chloroform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Chloroform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Chloroform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Chloroform	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Chloromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Chloromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Chloromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Chloromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Chloromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Cumene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Cumene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Cumene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Cumene	28				ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Cumene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Cyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Cyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Cyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Cyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Cyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Ethylbenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Ethylbenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Ethylbenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Ethylbenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Ethylbenzene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	m & p-Xylenes	18				ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	m & p-Xylenes	17				ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	m & p-Xylenes	20				ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methyl acetate	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Methyl acetate	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Methyl acetate	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methyl acetate	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methyl ethyl ketone	610				ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Methyl ethyl ketone	690				ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methyl isobutenyl ketone	48				ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Methyl isobutenyl ketone	37				ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Methylene chloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Methylene chloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Methylene chloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Methylene chloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Methylene chloride	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	o-Xylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	o-Xylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	o-Xylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	o-Xylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	o-Xylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Styrene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Styrene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Styrene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Styrene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Styrene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Toluene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Toluene	17				ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Toluene	19				ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Toluene	43				ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Toluene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Trichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Trichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Trichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Trichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Trichloroethylene	0	U		5	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-35	TB-35_2/23/16_(36-40)_NM	Temp	Temp	2/23/2016	-	Vinyl chloride	0	U		2	ug/L
TB-35	TB-35_2/23/16_(6-10)_DUP	Temp	Temp	2/23/2016	-	Vinyl chloride	0	U		2	ug/L
TB-35	TB-35_2/23/16_(6-10)_NM	Temp	Temp	2/23/2016	-	Vinyl chloride	0	U		2	ug/L
TB-35	TB-35_2/23/16_(16-20)_NM	Temp	Temp	2/23/2016	-	Vinyl chloride	0	U		2	ug/L
TB-35	TB-35_2/23/16_(26-30)_NM	Temp	Temp	2/23/2016	-	Vinyl chloride	0	U		2	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampleID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-36	TB-36_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-36	TB-36_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-36	TB-36_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Acetone	95				ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	14				ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	8				ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-37	TB-37_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-37	TB-37_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SamplInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-37	TB-37_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Acetone	0	U		50	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-38	TB-38_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-38	TB-38_4/16/16_(6-10)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-38	TB-38_4/16/16_(16-20)_DUP	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-38	TB-38_4/16/16_(16-20)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	2-Hexanone	0	U		10	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	2-Hexanone	0	U		10	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Acetone	0	U		50	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Acetone	0	U		50	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Benzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Benzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Bromoform	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Bromoform	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Bromomethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Bromomethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Carbon disulfide	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Carbon disulfide	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Chlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Chloroethane	0	U		10	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloroethane	0	U		10	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloroform	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Chloroform	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Chloromethane	0	U		10	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloromethane	0	U		10	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Cumene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Cumene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Cyclohexane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Cyclohexane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Ethylbenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Ethylbenzene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methyl acetate	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl acetate	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methylene chloride	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methylene chloride	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	o-Xylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	o-Xylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Styrene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Styrene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Toluene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Toluene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Trichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-39	TB-39_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Vinyl chloride	0	U		2	ug/L
TB-39	TB-39_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Vinyl chloride	0	U		2	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	2-Hexanone	0	U		10	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Acetone	58				ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Benzene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Bromoform	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Bromomethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Carbon disulfide	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chlorobenzene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloroethane	0	U		10	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloroform	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Chloromethane	0	U		10	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Cumene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Cyclohexane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Ethylbenzene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl acetate	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Methylene chloride	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	o-Xylene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Styrene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Toluene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichloroethylene	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-39	TB-39_4/16/16_(26-30)_NM	Temp	Temp	4/16/2016	-	Vinyl chloride	0	U		2	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromoethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	2-Hexanone	0	U		10	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	2-Hexanone	0	U		10	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	2-Hexanone	0	U		10	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Acetone	0	U		50	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Acetone	0	U		50	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Acetone	0	U		50	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Benzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Benzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Benzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Bromoform	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Bromoform	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Bromoform	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Bromomethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Bromomethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Bromomethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Carbon disulfide	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Carbon disulfide	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Carbon disulfide	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Chlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Chlorobenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Chloroethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloroethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Chloroethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Chloroform	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloroform	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Chloroform	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Chloromethane	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Chloromethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloromethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	cis-1,2-Dichloroethylene	13				ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Cumene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Cumene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Cumene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Cyclohexane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Cyclohexane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Cyclohexane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Ethylbenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Ethylbenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Ethylbenzene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methyl acetate	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methyl acetate	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl acetate	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Methylene chloride	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methylene chloride	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methylene chloride	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	o-Xylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	o-Xylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	o-Xylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Styrene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Styrene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Styrene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Toluene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Toluene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Toluene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Trichloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Trichloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichloroethylene	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-40	TB-40_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Vinyl chloride	0	U		2	ug/L
TB-40	TB-40_4/15/16_(6-10)_NM	Temp	Temp	4/15/2016	-	Vinyl chloride	0	U		2	ug/L
TB-40	TB-40_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Vinyl chloride	0	U		2	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	2-Hexanone	0	U		10	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Acetone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Benzene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Bromoform	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Bromomethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Carbon disulfide	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloroethane	0	U		10	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloroform	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloromethane	0	U		10	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Cumene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Cyclohexane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Ethylbenzene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl acetate	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methylene chloride	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	o-Xylene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Styrene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Toluene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-41	TB-41_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Vinyl chloride	0	U		2	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	2-Hexanone	0	U		10	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	2-Hexanone	0	U		10	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Acetone	0	U		50	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Acetone	0	U		50	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Benzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Benzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Bromoform	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Bromoform	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Bromomethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Bromomethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Carbon disulfide	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Carbon disulfide	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Chlorobenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloroethane	0	U		10	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Chloroethane	0	U		10	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloroform	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Chloroform	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Chloromethane	0	U		10	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Chloromethane	0	U		10	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Cumene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Cumene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Cyclohexane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Cyclohexane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Dibromochloromethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Ethylbenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Ethylbenzene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl acetate	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methyl acetate	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Methylene chloride	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Methylene chloride	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	o-Xylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	o-Xylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Styrene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Styrene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Toluene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Toluene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Trichloroethylene	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-41	TB-41_4/15/16_(16-20)_NM	Temp	Temp	4/15/2016	-	Vinyl chloride	0	U		2	ug/L
TB-41	TB-41_4/15/16_(26-30)_NM	Temp	Temp	4/15/2016	-	Vinyl chloride	0	U		2	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	2-Hexanone	0	U		10	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	2-Hexanone	0	U		10	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	2-Hexanone	0	U		10	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Acetone	0	U		50	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Acetone	0	U		50	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Acetone	0	U		50	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Benzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Benzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Benzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Bromoform	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Bromoform	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Bromoform	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Bromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Bromomethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Bromomethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Carbon disulfide	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Carbon disulfide	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Carbon disulfide	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Chlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Chlorobenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloroethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Chloroethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Chloroethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloroform	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Chloroform	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Chloroform	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Chloromethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloromethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Chloromethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Cumene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Cumene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Cumene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Cyclohexane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Cyclohexane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Cyclohexane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Ethylbenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Ethylbenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Ethylbenzene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	m & p-Xylenes	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methyl acetate	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl acetate	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methyl acetate	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methylene chloride	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methylene chloride	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methylene chloride	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	o-Xylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	o-Xylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	o-Xylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Styrene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Styrene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Styrene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Toluene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Toluene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Toluene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Trichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Trichloroethylene	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-42	TB-42_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Vinyl chloride	0	U		2	ug/L
TB-42	TB-42_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Vinyl chloride	0	U		2	ug/L
TB-42	TB-42_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Vinyl chloride	0	U		2	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	2-Hexanone	0	U		10	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	2-Hexanone	0	U		10	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	2-Hexanone	0	U		10	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Acetone	0	U		50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Acetone	0	U		50	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Acetone	0	U		50	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Benzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Benzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Benzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Bromoform	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Bromoform	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Bromoform	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Bromomethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Bromomethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Bromomethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Carbon disulfide	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Carbon disulfide	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Carbon disulfide	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Chlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Chlorobenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloroethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Chloroethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Chloroethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloroform	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Chloroform	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Chloroform	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Chloromethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Chloromethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Chloromethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Cumene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Cumene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Cumene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Cyclohexane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Cyclohexane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Cyclohexane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Dichlorobromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Ethylbenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Ethylbenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Ethylbenzene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methyl acetate	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl acetate	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methyl acetate	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Methylene chloride	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Methylene chloride	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Methylene chloride	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	o-Xylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	o-Xylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	o-Xylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Styrene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Styrene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Styrene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Toluene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Toluene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Toluene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Trichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Trichloroethylene	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-43	TB-43_4/14/16_(26-30)_NM	Temp	Temp	4/14/2016	-	Vinyl chloride	0	U		2	ug/L
TB-43	TB-43_4/14/16_(6-10)_NM	Temp	Temp	4/14/2016	-	Vinyl chloride	0	U		2	ug/L
TB-43	TB-43_4/14/16_(16-20)_NM	Temp	Temp	4/14/2016	-	Vinyl chloride	0	U		2	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	2-Hexanone	0	U		10	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	2-Hexanone	0	U		10	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	2-Hexanone	0	U		10	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Acetone	0	U		50	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Acetone	0	U		50	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Acetone	0	U		50	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Benzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Benzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Benzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Bromoform	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Bromoform	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Bromoform	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Bromomethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Bromomethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Bromomethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Carbon disulfide	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Carbon disulfide	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Carbon disulfide	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Chlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Chlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Chlorobenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Chloroethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Chloroethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Chloroethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Chloroform	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Chloroform	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Chloroform	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Chloromethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Chloromethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Chloromethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Cumene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Cumene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Cumene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Cyclohexane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Cyclohexane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Cyclohexane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Ethylbenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Ethylbenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Ethylbenzene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methyl acetate	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Methyl acetate	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methyl acetate	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methylene chloride	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Methylene chloride	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methylene chloride	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	o-Xylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	o-Xylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	o-Xylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Styrene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Styrene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Styrene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Toluene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Toluene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Toluene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Trichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Trichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Trichloroethylene	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-44	TB-44_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Vinyl chloride	0	U		2	ug/L
TB-44	TB-44_5/17/16_(26-30)_NM	Temp	Temp	5/17/2016	-	Vinyl chloride	0	U		2	ug/L
TB-44	TB-44_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Vinyl chloride	0	U		2	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	2-Hexanone	0	U		10	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	2-Hexanone	0	U		10	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Acetone	0	U		50	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Acetone	0	U		50	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Benzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Benzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Bromoform	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Bromoform	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Bromomethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Bromomethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Carbon disulfide	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Carbon disulfide	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Chlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Chlorobenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Chloroethane	0	U		10	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Chloroethane	0	U		10	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Chloroform	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Chloroform	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Chloromethane	0	U		10	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Chloromethane	0	U		10	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Cumene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Cumene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Cyclohexane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Cyclohexane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Ethylbenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Ethylbenzene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methyl acetate	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methyl acetate	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Methylene chloride	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Methylene chloride	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	o-Xylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	o-Xylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Styrene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Styrene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Toluene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Toluene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Trichloroethylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Trichloroethylene	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-45	TB-45_5/17/16_(16-20)_NM	Temp	Temp	5/17/2016	-	Vinyl chloride	0	U		2	ug/L
TB-45	TB-45_5/17/16_(6-10)_NM	Temp	Temp	5/17/2016	-	Vinyl chloride	0	U		2	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	2-Hexanone	0	U		10	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	2-Hexanone	0	U		10	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	2-Hexanone	0	U		10	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Acetone	0	U		50	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Acetone	0	U		50	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Acetone	0	U		50	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Benzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Benzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Benzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Bromoform	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Bromoform	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Bromoform	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Bromomethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Bromomethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Bromomethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Carbon disulfide	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Carbon disulfide	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Carbon disulfide	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Chlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Chlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Chlorobenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Chloroethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Chloroethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Chloroethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Chloroform	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Chloroform	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Chloroform	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Chloromethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Chloromethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Chloromethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Cumene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Cumene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Cumene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Cyclohexane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Cyclohexane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Cyclohexane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Ethylbenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Ethylbenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Ethylbenzene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methyl acetate	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methyl acetate	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methyl acetate	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methylcyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methylene chloride	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methylene chloride	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methylene chloride	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	o-Xylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	o-Xylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	o-Xylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Styrene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Styrene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Styrene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Toluene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Toluene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Toluene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Trichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Trichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Trichloroethylene	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-46	TB-46_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Vinyl chloride	0	U		2	ug/L
TB-46	TB-46_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Vinyl chloride	0	U		2	ug/L
TB-46	TB-46_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Vinyl chloride	0	U		2	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	2-Hexanone	0	U		10	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	2-Hexanone	0	U		10	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	2-Hexanone	0	U		10	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Acetone	62				ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Acetone	0	U		50	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Acetone	0	U		50	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Benzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Benzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Benzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Bromoform	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Bromoform	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Bromoform	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Bromomethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Bromomethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Bromomethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Carbon disulfide	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Carbon disulfide	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Carbon disulfide	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Chlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Chlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Chlorobenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Chloroethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Chloroethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Chloroethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Chloroform	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Chloroform	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Chloroform	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Chloromethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Chloromethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Chloromethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Cumene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Cumene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Cumene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Cyclohexane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Cyclohexane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Cyclohexane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Ethylbenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Ethylbenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Ethylbenzene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methyl acetate	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methyl acetate	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Methylene chloride	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Methylene chloride	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Methylene chloride	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	o-Xylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	o-Xylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	o-Xylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Styrene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Styrene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Styrene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Toluene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Toluene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Toluene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Trichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Trichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Trichloroethylene	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-48	TB-48_5/18/16_(16-20)_NM	Temp	Temp	5/18/2016	-	Vinyl chloride	0	U		2	ug/L
TB-48	TB-48_5/18/16_(22-26)_NM	Temp	Temp	5/18/2016	-	Vinyl chloride	0	U		2	ug/L
TB-48	TB-48_5/18/16_(6-10)_NM	Temp	Temp	5/18/2016	-	Vinyl chloride	0	U		2	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	2-Hexanone	0	U		10	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	2-Hexanone	0	U		10	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	2-Hexanone	0	U		10	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Acetone	0	U		50	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Acetone	0	U		50	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Acetone	0	U		50	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Benzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Benzene	0	U		5	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Benzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Bromoform	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Bromoform	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Bromoform	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Bromomethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Bromomethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Bromomethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Carbon disulfide	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Carbon disulfide	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Carbon disulfide	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Chlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Chlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Chlorobenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Chloroethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Chloroethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Chloroethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Chloroform	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Chloroform	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Chloroform	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Chloromethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Chloromethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Chloromethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Cumene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Cumene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Cumene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Cyclohexane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Cyclohexane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Cyclohexane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Dichlorodifluoromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Ethylbenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Ethylbenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Ethylbenzene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methyl acetate	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methyl acetate	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methyl acetate	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methylene chloride	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methylene chloride	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methylene chloride	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	o-Xylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	o-Xylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	o-Xylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Styrene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Styrene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Styrene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Toluene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Toluene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Toluene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Trichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Trichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Trichloroethylene	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Trichlorofluoromethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-49	TB-49_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Vinyl chloride	0	U		2	ug/L
TB-49	TB-49_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Vinyl chloride	0	U		2	ug/L
TB-49	TB-49_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Vinyl chloride	0	U		2	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,1-Dichloroethene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dibromoethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloroethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,2-Dichloropropane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	2-Hexanone	0	U		10	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	2-Hexanone	0	U		10	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	2-Hexanone	0	U		10	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Acetone	0	U		50	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Acetone	0	U		50	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Acetone	440				ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Benzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Benzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Benzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Bromoform	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Bromoform	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Bromoform	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Bromomethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Bromomethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Bromomethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Carbon disulfide	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Carbon disulfide	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Carbon disulfide	1400				ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Carbon tetrachloride	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Chlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Chlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Chlorobenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Chloroethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Chloroethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Chloroethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Chloroform	9.9				ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Chloroform	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Chloroform	13000				ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Chloromethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Chloromethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Chloromethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Cumene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Cumene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Cumene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Cyclohexane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Cyclohexane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Cyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Dibromochloromethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Dichlorobromomethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Ethylbenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Ethylbenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Ethylbenzene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	m & p-Xylenes	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methyl acetate	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methyl acetate	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methyl acetate	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methyl ethyl ketone	0	U		50	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methyl ethyl ketone	58				ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methylcyclohexane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Methylene chloride	1400				ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Methylene chloride	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Methylene chloride	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	o-Xylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	o-Xylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	o-Xylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Styrene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Styrene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Styrene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Tetrachloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Toluene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Toluene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Toluene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Trichloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Trichloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Trichloroethylene	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Trichlorofluoromethane	0	U		5	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-50	TB-50_5/19/16_(16-20)_NM	Temp	Temp	5/19/2016	-	Vinyl chloride	0	U		2	ug/L
TB-50	TB-50_5/19/16_(26-30)_NM	Temp	Temp	5/19/2016	-	Vinyl chloride	0	U		2	ug/L
TB-50	TB-50_5/19/16_(6-10)_NM	Temp	Temp	5/19/2016	-	Vinyl chloride	0	U		2	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U	UJ	5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U	UJ	5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U	UJ	5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	2.3	J		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	2.3	J		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	3.2	J		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	3.4	J		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U	UJ	5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	2.3	J		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	2.3	J		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	1.8	J		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	1.7	J		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	2-Hexanone	3	J		10	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Acetone	30	J		50	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Acetone	920			500	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Acetone	980			500	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Acetone	0	U		50	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Benzene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Benzene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Benzene	0.39	J		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Benzene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Carbon disulfide	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Carbon disulfide	480			50	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Carbon disulfide	430			50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Carbon disulfide	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Chloroform	13			5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Chloroform	14000			500	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Chloroform	14000			500	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Chloroform	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Chloromethane	0	U		10	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Chloromethane	0.75	J		10	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Chloromethane	0	U		10	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Chloromethane	0.92	J		10	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	56			50	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	51			50	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	2.4	J		10	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	2.1	J		10	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Methylene chloride	74		J	5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Methylene chloride	3000		J	500	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Methylene chloride	3100		J	500	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Methylene chloride	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	o-Xylene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	o-Xylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	o-Xylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	o-Xylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Toluene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Toluene	0.87	J		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Toluene	0.74	J		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Toluene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U	UJ	5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U	UJ	10	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-50R	TB-50R-30'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
TB-50R	TB-50R-20'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
TB-50R	TB-50R-20'-DUP	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
TB-50R	TB-50R-10'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	2-Hexanone	0	U		10	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	2-Hexanone	0	U		10	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	2-Hexanone	0	U		10	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Acetone	0	U		50	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Acetone	39	J		50	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Acetone	0	U		50	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Benzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Benzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Benzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Bromoform	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Bromoform	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Bromoform	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Bromomethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Bromomethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Bromomethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Carbon disulfide	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Carbon disulfide	0.77	J		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Carbon disulfide	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Chlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Chlorobenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Chlorobenzene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Chloroethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Chloroethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Chloroethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Chloroform	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Chloroform	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Chloroform	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Chloromethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Chloromethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Chloromethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	cis-1,2-Dichloroethylene	3	J		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Cumene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Cumene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Cumene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Cyclohexane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Cyclohexane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Cyclohexane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Ethylbenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Ethylbenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Ethylbenzene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Methyl acetate	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Methyl acetate	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Methyl acetate	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Methyl isobutenyl ketone	6.6	J		10	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Methylcyclohexane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Methylene chloride	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Methylene chloride	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Methylene chloride	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	o-Xylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	o-Xylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	o-Xylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Styrene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Styrene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Styrene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Toluene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Toluene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Toluene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Trichloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Trichloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Trichloroethylene	0	U		5	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-51	TB-51_1/29/17_(26-30)_NM	Temp	Temp	1/29/2017	-	Vinyl chloride	0	U		2	ug/L
TB-51	TB-51_1/29/17_(16-20)_NM	Temp	Temp	1/29/2017	-	Vinyl chloride	0	U		2	ug/L
TB-51	TB-51_1/29/17_(6-10)_NM	Temp	Temp	1/29/2017	-	Vinyl chloride	0	U		2	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Acetone	36	J		50	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Acetone	0	U		50	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Acetone	0	U		50	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Benzene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Benzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Benzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Carbon disulfide	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Carbon disulfide	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Carbon disulfide	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Chloroform	1.5	J		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Chloroform	22			5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Chloroform	0.99	J		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Chloromethane	0	U		10	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Chloromethane	0	U		10	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Chloromethane	0	U		10	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Methylene chloride	4.4	J		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Methylene chloride	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Methylene chloride	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	o-Xylene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	o-Xylene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	o-Xylene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Toluene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Toluene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Toluene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-52	TB-52-6-10'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
TB-52	TB-52-16-20'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-52	TB-52-26-30'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,1,1-Trichloroethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,1,2,2-Tetrachloroethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,1,2-Trichloroethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,1-Dichloroethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,1-Dichloroethene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,2,4-Trichlorobenzene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,2-Dibromo-3-chloropropane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,2-Dibromoethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,2-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,2-Dichloroethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,2-Dichloropropane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,3-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	1,4-Dichlorobenzene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	2-Hexanone	0	U		10	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Acetone	86			50	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Acetone	97			50	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Acetone	91			50	ug/L

**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Benzene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Benzene	0.67	J		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Benzene	0.56	J		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Bromoform	0	U	UJ	5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Bromomethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Carbon disulfide	1	J		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Carbon disulfide	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Carbon disulfide	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Carbon tetrachloride	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Chlorobenzene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Chloroethane	0	U	UJ	10	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Chloroform	1.2	J		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Chloroform	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Chloroform	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Chloromethane	0	U		10	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Chloromethane	0	U		10	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Chloromethane	0	U		10	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	cis-1,2-Dichloroethylene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	cis-1,3-Dichloropropylene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Cumene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Cyclohexane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Dibromochloromethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Dichlorobromomethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Dichlorodifluoromethane	0	U		10	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Ethylbenzene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	m & p-Xylenes	0.82	J		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	m & p-Xylenes	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	m & p-Xylenes	1	J		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Methyl acetate	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Methyl ethyl ketone	0	U		50	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Methyl isobutenyl ketone	0	U		10	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Methylcyclohexane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Methylene chloride	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Methylene chloride	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Methylene chloride	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	MTBE (Methyl tert-butyl ether)	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	o-Xylene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	o-Xylene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	o-Xylene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Styrene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Tetrachloroethylene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Toluene	1.8	J		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Toluene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Toluene	2.2	J		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	trans-1,2-Dichloroethylene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	trans-1,3-Dichloropropylene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Trichloroethylene	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Trichlorofluoromethane	0	U		5	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Trichlorotrifluoroethane	0	U		10	ug/L
TB-53	TB-53-26-30'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
TB-53	TB-53-6-10'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
TB-53	TB-53-16-20'	Temp	Temp	6/16/2017	-	Vinyl chloride	0	U		2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,1,1,2-Tetrachloroethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,1,1-Trichloroethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,1,2,2-Tetrachloroethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,1,2-Trichloroethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,1-Dichloroethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,1-Dichloroethene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2,3-Trichlorobenzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2,3-Trichloropropane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2,4,5-Tetrachlorobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2,4-Trichlorobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2,4-Trichlorobenzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2-Dibromo-3-chloropropane	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2-Dibromoethane	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2-Dichlorobenzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2-Dichlorobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2-Dichloroethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2-Dichloropropane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,2-Diphenylhydrazine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,3,5-Trinitrobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,3-Dichlorobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,3-Dichlorobenzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,3-Dinitrobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,4-Dichlorobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,4-Dichlorobenzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,4-Dinitrobenzene	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,4-Dioxane (p-Dioxane)	0			150	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1,4-Naphthoquinone	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1-Methylnaphthalene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	1-Naphthalenamine	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,2'-Oxybis(1-chloropropane)	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,3,4,6-Tetrachlorophenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,3-Dibromo-1-propanol phosph	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,3-Dichloroaniline	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4,5-T	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4,5-TP (Silvex)	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4,5-Trichlorophenol	0			10	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4,6-Trichlorophenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4-D	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4-Dichlorophenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4-Dimethylphenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4-Dinitrophenol	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,4-Dinitrotoluene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,6-Dichlorophenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2,6-Dinitrotoluene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Acetylaminofluorene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Chloronaphthalene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Chlorophenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Hexanone	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Methyl-5-nitroaniline	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Methylnaphthalene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Methylphenol(o-Cresol)	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Naphthalenamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Nitroaniline	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Nitrophenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	2-Picoline	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	3&4-Methylphenol(m&p Cresol)	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	3,3'-Dichlorobenzidine	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	3,3'-Dimethylbenzidine	0			25	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	3-Methylcholanthrene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	3-Nitroaniline	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4,4'-DDD	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4,4'-DDE	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4,4'-DDT	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4,4'-Methylene-bis(2-chloroani	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4,6-Dinitro-2-methylphenol	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4-Aminobiphenyl	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4-Bromophenylphenyl ether	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4-Chloro-3-methylphenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4-Chloroaniline	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4-Chlorophenylphenyl ether	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4-Nitroaniline	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4-Nitrophenol	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	4-Nitroquinoline-n-oxide	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	5-Nitro-o-toluidine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	7,12-Dimethylbenz(a)anthracene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	a,a-Dimethylphenylethylamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Acenaphthene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Acenaphthylene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Acetone	0			25	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Acetonitrile	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Acetophenone	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Acrolein	0			10	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Acrylonitrile	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Aldrin	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Allyl chloride	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	alpha-BHC	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Aniline	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Anthracene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Antimony, Total	0			3	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Aramite	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Arsenic, Total	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Atrazine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Barium, Total	69.3			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzal chloride	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzaldehyde	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzidine	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzo(a)anthracene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzo(a)pyrene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzo(b)fluoranthene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzo(g,h,i)perylene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzo(k)fluoranthene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzoic Acid	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzophenone	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Benzyl alcohol	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Beryllium, Total	0.28	J		0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	beta-BHC	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Biphenyl (Diphenyl)	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	bis(2-Chloroethoxy)methane	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	bis(2-Chloroethyl) ether	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	bis(2-Ethylhexyl)phthalate	0			6	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Bromobenzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Bromochloromethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Bromoform	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Bromomethane	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Butylbenzylphthalate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Cadmium, Total	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Caprolactam	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Carbazole	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Carbon disulfide	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Carbon tetrachloride	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chlordane (Technical)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chlorobenzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chlorobenzilate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chloroethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chloroform	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chloromethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chloroprene	0			5	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chromium, Total	0.92	J		5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Chrysene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	cis-1,2-Dichloroethylene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	cis-1,3-Dichloropropylene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Cobalt, Total	0.42	J		5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Copper, Total	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Cyanide	0			0	mg/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	delta-BHC	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Diallate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dibenz(a,h)anthracene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dibenzo(a,e)pyrene	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dibenzofuran	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dibromochloromethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dibromomethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dichlorobromomethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dichlorodifluoromethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dieldrin	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Diethylphthalate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dimethoate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dimethylphthalate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Di-n-butylphthalate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Di-n-octylphthalate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Dinoseb	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Diphenyl ether (Phenyl ether)	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Diphenylamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Disulfoton	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Endosulfan I	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Endosulfan II	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Endosulfan sulfate	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Endrin	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Endrin aldehyde	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Ethyl methacrylate	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Ethyl methanesulfonate	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Ethylbenzene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Famphur	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Fluoranthene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Fluorene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	gamma-BHC (Lindane)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Heptachlor	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Heptachlor epoxide	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Hexachloro-1,3-butadiene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Hexachlorobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Hexachlorocyclopentadiene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Hexachloroethane	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Hexachlorophene	0			100	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Hexachloropropene	0			10	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Indeno(1,2,3-cd)pyrene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Iodomethane	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Isobutanol	0			100	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Isodrin	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Isophorone	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Isosafrole	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Kepone	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Lead, Total	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Mercury, Total	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methacrylonitrile	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methapyrilene	0			50	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methoxychlor	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methyl ethyl ketone	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methyl isobutenyl ketone	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methyl methacrylate	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methyl methanesulfonate	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methyl parathion	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Methylene Chloride	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Naphthalene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	n-Decane	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Nickel, Total	0.8	J		5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Nitrobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitrosodiethylamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitrosodimethylamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitroso-di-n-butylamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitroso-di-n-propylamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitrosodiphenylamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitrosomethylethylamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitrosomorpholine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitrosopiperidine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	N-Nitrosopyrrolidine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	n-Octadecane	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	O,O,O-Triethylphosphorothioate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	O-Toluidine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Parathion (Ethyl parathion)	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	PCB-1016 (Aroclor 1016)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	PCB-1221 (Aroclor 1221)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	PCB-1232 (Aroclor 1232)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	PCB-1242 (Aroclor 1242)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	PCB-1248 (Aroclor 1248)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	PCB-1254 (Aroclor 1254)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	PCB-1260 (Aroclor 1260)	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	P-Dimethylaminoazobenzene	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Pentachlorobenzene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Pentachloroethane	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Pentachloronitrobenzene	0			10	ug/L



**Appendix B - Historical Groundwater Analytical Data  
Symrise Colonels Island Site**

Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Pentachlorophenol	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Phenacetin	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Phenanthrene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Phenol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Phorate	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	p-Phenylenediamine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Pronamide	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Propionitrile	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Pyrene	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Pyridine	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Safrole	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Selenium, Total	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Silver, Total	0			5	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Styrene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Sulfide	0			1	mg/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Sulfotepp (Thiodiphosphoric Ac	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Terpineol	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Tetrachloroethylene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Thallium, Total	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Thionazin	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Tin, Total	0			20	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Toluene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Toxaphene	0			0	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	trans-1,2-Dichloroethylene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	trans-1,3-Dichloropropylene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	trans-1,4-Dichloro-2-butene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Trichloroethylene	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Trichlorofluoromethane	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Vanadium, Total	0			10	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Vinyl acetate	0			2	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Vinyl chloride	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Xylene (Total)	0			1	ug/L
UP-1	UP-1-11920	Permanent	Active	11/19/2020	7.5 - 17.5	Zinc, Total	3.6	J		10	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,1,1-Trichloroethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,1,2-Trichloroethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,1,2-Trichlorotrifluoroethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,1-Dichloroethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,1-Dichloroethene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,2,4-Trichlorobenzene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,2-Dibromo-3-chloropropane	0	U		2	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,2-Dibromoethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,2-Dichlorobenzene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,2-Dichloroethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,2-Dichloropropane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,3-Dichlorobenzene	0	U		1	ug/L

**Appendix B - Historical Groundwater Analytical Data  
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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	1,4-Dichlorobenzene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	2-Hexanone	0	U		5	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Acetone	0	U		25	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Benzene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Bromoform	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Bromomethane	0	U		2	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Carbon tetrachloride	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Chlorobenzene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Chloroethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Chloroform	0	U		5	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Chloromethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	cis-1,2-Dichloroethylene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	cis-1,3-Dichloropropylene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Cumene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Cyclohexane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Dibromochloromethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Dibromomethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Dichlorobromomethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Dichlorodifluoromethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Ethylbenzene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Methyl acetate	0	U		10	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Methyl ethyl ketone	0	U		5	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Methyl isobutenyl ketone	0	U		5	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Methylcyclohexane	0	U		10	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Methylene Chloride	0	U		5	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	MTBE (Methyl tert-butyl ether)	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Styrene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Tetrachloroethylene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Toluene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	trans-1,2-Dichloroethylene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	trans-1,3-Dichloropropylene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Trichloroethylene	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Trichlorofluoromethane	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Vinyl acetate	0	U		2	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Vinyl chloride	0	U		1	ug/L
UP-1	UP-1-040721	Permanent	Active	4/7/2021	7.5 - 17.5	Xylene (Total)	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	0	U		25	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	0	U		1	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		10	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
W13	W13_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	0	U		2	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	0	U		25	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L

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Well_ID	SampInfoID	Well_Type	Status	SDate	Screen	Analyte	Result	Lab_Flag	Qualifier	RDL	Units
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		10	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
W26	W26_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	0	U		2	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,1-Trichloroethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2,2-Tetrachloroethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1,2-Trichloroethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	1,1-Dichloroethene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloroethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	1,2-Dichloropropane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	2-Hexanone	0	U		10	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Acetone	0	U		25	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Benzene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromoform	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Bromomethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon disulfide	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Carbon tetrachloride	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorobenzene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Chlorodibromomethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloroform	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Chloromethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,2-Dichloroethylene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	cis-1,3-Dichloropropylene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Dichlorobromomethane	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Ethylbenzene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl ethyl ketone	0	U		10	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Methyl isobutyl ketone	0	U		10	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Methylene Chloride	0	U		5	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Styrene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Tetrachloroethylene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Toluene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,2-Dichloroethylene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	trans-1,3-Dichloropropylene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Trichloroethylene	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Vinyl chloride	0	U		1	ug/L
W60	W60_1/30/06_NM	Temp	Temp	1/30/2006	-	Xylenes, total	0	U		2	ug/L



## **Appendix C**

### **BIOCHLOR and BIOSCREEN Model Inputs**

## BIOSCREEN Model Input

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		
1	<b>BIOSCREEN Natural Attenuation Decision Support System</b>										Colonels Island		<b>Data Input Instructions:</b>								
2	Air Force Center for Environmental Excellence										Benzene		115 → 1. Enter value directly...or								
3											Run Name		0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).								
4	<b>1. HYDROGEOLOGY</b>										<b>5. GENERAL</b>										
5	Seepage Velocity*	Vs		262.8	(ft/yr)	Modeled Area Length*		1700	(ft)			Variable* → Data used directly in model. 20 → Value calculated by model. (Don't enter any data).									
6	or				Modeled Area Width*		200	(ft)													
7	Hydraulic Conductivity	K		2.5E-02	(cm/sec)	Simulation Time*		30	(yr)												
8	Hydraulic Gradient	i		0.003	(ft/ft)	<b>6. SOURCE DATA</b>															
9	Porosity	n		0.3	(-)	Source Thickness in Sat.Zone*		5	(ft)	Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3											
10	<b>2. DISPERSION</b>										Source Zones:										
12	Longitudinal Dispersivity*	alpha x		13.6	(ft)	Width* (ft)		Conc. (mg/L)*													
13	Transverse Dispersivity*	alpha y		1.4	(ft)	50		2.6													
14	Vertical Dispersivity*	alpha z		0.0	(ft)																
15	or																				
16	Estimated Plume Length	Lp		290	(ft)																
18	<b>3. ADSORPTION</b>										<b>Source Halflife (see Help):</b>										
19	Retardation Factor*	R		5.3	(-)	40		200		(yr)											
20	or						Inst. React. 1st Order														
21	Soil Bulk Density	rho		1.7	(kg/l)			Soluble Mass 500		(Kg)											
22	Partition Coefficient	Koc		38	(L/kg)			In Source NAPL, Soil													
23	Fraction Organic Carbon	foc		2.0E-2	(-)																
25	<b>4. BIODEGRADATION</b>										<b>7. FIELD DATA FOR COMPARISON</b>										
26	1st Order Decay Coeff*	lambda		6.9E-1	(per yr)			Concentration (mg/L)		2.6	.2	.0									
27	or								Dist. from Source (ft)		0	170	340	510	680	850	1020	1190	1360	1530	1700
28	Solute Half-Life	t-half		1.00	(year)					<b>8. CHOOSE TYPE OF OUTPUT TO SEE:</b>											
29	<b>or Instantaneous Reaction Model</b>										<input type="button" value="RUN CENTERLIN"/>		<input type="button" value="RUN ARRAY"/>		<input type="button" value="Help"/>		<input type="button" value="Recalculate This Sheet"/>				
30	Delta Oxygen*	DO		1.65	(mg/L)					<input type="button" value="View Output"/>									<input type="button" value="View Output"/>		<input type="button" value="Paste Example Dataset"/>
31	Delta Nitrate*	NO3		0.7	(mg/L)							<input type="button" value="Restore Formulas for Vs, Dispersivities, R, lambda, other"/>									
32	Observed Ferrous Iron*	Fe2+		16.6	(mg/L)																
33	Delta Sulfate*	SO4		22.4	(mg/L)																
34	Observed Methane*	CH4		6.6	(mg/L)																

## BIOCHLOR Model Input

### BIOCHLOR Natural Attenuation Decision Support System

Version 2.2  
Excel 2000

Colons Island  
DCE Plume  
Run Name

**Data Input Instructions:**

115 → 1. Enter value directly....or  
↑ or 2. Calculate by filling in gray cells. Press Enter, then C  
 0.02

(To restore formulas, hit "Restore Formulas" button )  
 Variable\* → Data used directly in model.

Test if Biotransformation is Occurring
Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes  Ethanes

#### 1. ADVECTION

Seepage Velocity\* Vs  (ft/yr) C

Hydraulic Conductivity K  (cm/sec)

Hydraulic Gradient i  (ft/ft)

Effective Porosity n  (-)

#### 5. GENERAL


Simulation Time\*  (yr) L

Modeled Area Width\*  (ft) W

Modeled Area Length\*  (ft)

Zone 1 Length\*  (ft)

Zone 2 Length\*  (ft) L - Zone 1



#### 2. DISPERSION

Alpha x\*  (ft) Calc. Alpha x

(Alpha y) / (Alpha x)\*  (-)

(Alpha z) / (Alpha x)\*  (-)

#### 3. ADSORPTION

Retardation Factor\*  C

Soil Bulk Density, rho  (kg/L)

Fraction Organic Carbon, foc  (-)

Partition Coefficient Koc

PCE	<input type="text" value="426"/> (L/kg)	<input type="text" value="49.28"/> (-)
TCE	<input type="text" value="130"/> (L/kg)	<input type="text" value="15.73"/> (-)
DCE	<input type="text" value="125"/> (L/kg)	<input type="text" value="15.17"/> (-)
VC	<input type="text" value="30"/> (L/kg)	<input type="text" value="4.35"/> (-)
ETH	<input type="text" value="302"/> (L/kg)	<input type="text" value="35.23"/> (-)

Common R (used in model)\* =  C

#### 6. SOURCE DATA

TYPE: Decaying Single Planar

Source Options

Source Thickness in Sat. Zone\*  (ft)

Width\* (ft)

Conc. (mg/L)*	C1	Y1
PCE	<input type="text" value=".0"/>	<input type="text" value="0.05"/>
TCE	<input type="text" value=".0"/>	<input type="text" value="0.05"/>
DCE	<input type="text" value="10.0"/>	<input type="text" value="0.05"/>
VC	<input type="text" value=".0"/>	<input type="text" value="0.05"/>
ETH	<input type="text" value="0"/>	<input type="text" value="0.05"/>

#### 7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)	<input type="text" value=".0"/>	<input type="text" value=".0"/>	<input type="text" value=".0"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
TCE Conc. (mg/L)	<input type="text" value=".0"/>	<input type="text" value=".003"/>	<input type="text" value=".0"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
DCE Conc. (mg/L)	<input type="text" value="2.3"/>	<input type="text" value=".696"/>	<input type="text" value=".007"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
VC Conc. (mg/L)	<input type="text" value="0.0"/>	<input type="text" value=".02"/>	<input type="text" value=".0"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
ETH Conc. (mg/L)	<input type="text" value="0.0"/>	<input type="text" value=".0"/>	<input type="text" value=".0"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Distance from Source (ft)	<input type="text" value="0"/>	<input type="text" value="75"/>	<input type="text" value="135"/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
Date Data Collected	<input type="text" value="2018"/>								

#### 4. BIOTRANSFORMATION

-1st Order Decay Coefficient\* C

Zone	Compound	$\lambda$ (1/yr)	half-life (yrs)	Yield
Zone 1	PCE → TCE	<input type="text" value="0.877"/> <span style="color: red;">←</span>	0.79	0.79
	TCE → DCE	<input type="text" value="0.936"/> <span style="color: red;">←</span>	0.74	0.74
	DCE → VC	<input type="text" value="1.074"/> <span style="color: red;">←</span>	0.64	0.64
	VC → ETH	<input type="text" value="1.541"/> <span style="color: red;">←</span>	0.45	0.45
Zone 2	PCE → TCE	<input type="text" value="0.877"/> <span style="color: red;">←</span>	0.79	
	TCE → DCE	<input type="text" value="0.936"/> <span style="color: red;">←</span>	0.74	
	DCE → VC	<input type="text" value="1.074"/> <span style="color: red;">←</span>	0.64	
	VC → ETH	<input type="text" value="1.541"/> <span style="color: red;">←</span>	0.45	

λ HELP

#### 8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE

RUN ARRAY

Help

Restore

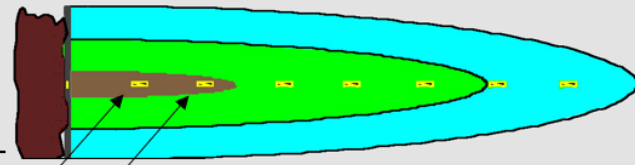
RESET

SEE OUTPUT

Paste

Unprotect

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 13, 2017

Nick DiLuzio  
Newfields  
TWO Midtown Plaza  
Atlanta GA 30309

TEL: (404) 969-0731  
FAX:

RE: Colonels Island

Dear Nick DiLuzio:

Order No: 1701087

Analytical Environmental Services, Inc. received 34 samples on 1/30/2017 10:55:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Tyrel Heckendorf  
Project Manager





COMPANY: NewFields		ADDRESS: 1349 W Peachtree St. #2000 Atlanta, GA 30309			ANALYSIS REQUESTED						Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.		No # of Containers	
PHONE: 404-969-0731		FAX:			PRESERVATION (See codes)						REMARKS			
SAMPLED BY: Nick Diluzio		SIGNATURE: [Signature]												
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)						REMARKS	
		DATE	TIME											
1	MW-62 <sup>NO</sup> 2.5-3' 1.5'	1/28/17			X	50	X							1
2	MW-62 5.5-6' <sup>NO</sup> 6.5-7'													
3	MW-62 10-10.5'													
4	MW-62 17-17.5'													
5	MW-62 18-18.5'													
6	MW-62 22-22.5'													
7	MW-63 2.5-3'													
8	MW-63 5.5-6'													
9	MW-63 12-12.5'													
10	MW-63 18-18.5'													
11	MW-63 23-23.5'													
12	MW-63 26.5-27'													
13	MW-64 2.5-3'													
14	MW-64 6.5-7'													
RELINQUISHED BY: [Signature]		DATE/TIME: 1/30/17 10:55	RECEIVED BY: [Signature]		DATE/TIME: 1/30/17 10:55		PROJECT INFORMATION						RECEIPT	
1: [Signature]		2: [Signature]		PROJECT NAME: Colorets Island		PROJECT #:						Total # of Containers: 14		
3: [Signature]		3: [Signature]		SITE ADDRESS:		SEND REPORT TO: Nick Diluzio, NewFields						Turnaround Time Request		
SPECIAL INSTRUCTIONS/COMMENTS:		SHIPMENT METHOD:		INVOICE TO:		IF DIFFERENT FROM ABOVE)						STATE PROGRAM (if any):		
		OUT 1/1 VIA:		IN 1/1 VIA:		QUOTE #:						E-mail? Fax?		
		CLIENT FedEx UPS MAIL COURIER		GREYHOUND OTHER		PO#:						DATA PACKAGE: I O II O III O IV O		

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY. IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.

SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None White Copy - Original; Yellow Copy - Client



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1701087

Date: 1/28/17 Page 2 of 5

COMPANY: <b>Newfields</b>			ADDRESS:					ANALYSIS REQUESTED								Visit our website <b>www.aesatlanta.com</b> to check on the status of your results, place bottle orders, etc.		No # of Containers																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.



**ANALYTICAL ENVIRONMENTAL SERVICES, INC**

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

**CHAIN OF CUSTODY**

Work Order: 1701087

Date: 1/28/17 Page 3 of 3

**COMPANY:** Newfields

**ADDRESS:**

**PHONE:**

**FAX:**

**SAMPLED BY:** [Signature]

**SIGNATURE:** [Signature]

**ANALYSIS REQUESTED:**

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
		DATE	TIME						
1	ML-67 11-11.5	1/28/17			X	SO	X		1
2	ML-67 19-19.5	↓			↓	↓	↓		↓
3	ML-68 4-4.5								
4	ML-68 7-7.5								
5	ML-68 12-12.5	↓			↓	↓	↓		↓
6	ML-68 18.5-20								
7									
8									
9									
10									
11									
12									
13									
14									

**RECEIVED BY:** [Signature] 1/30/17 10:55

**DATE/TIME:** 1/30/17 10:55

**PROJECT INFORMATION:** PROJECT NAME: Colorels Island

PROJECT #: \_\_\_\_\_  
SITE ADDRESS: \_\_\_\_\_  
SEND REPORT TO: \_\_\_\_\_  
INVOICE TO: (IF DIFFERENT FROM ABOVE) \_\_\_\_\_  
QUOTE #: \_\_\_\_\_ PO#: \_\_\_\_\_

**SHIPMENT METHOD:** OUT / / VIA: \_\_\_\_\_  
IN / / VIA: \_\_\_\_\_  
CLIENT: [Circle] FedEx UPS MAIL COURIER  
GREYHOUND OTHER \_\_\_\_\_

**RECEIPT:** Total # of Containers: 6

Turnaround Time Request:  
 Standard 5 Business Days  
 2 Business Day Rush  
 Next Business Day Rush  
 Same Day Rush (auth req.)  
 Other \_\_\_\_\_  
 STATE PROGRAM (if any): \_\_\_\_\_  
 E-mail? Y/N; Fax? Y/N  
 DATA PACKAGE: I II III IV

SPECIAL INSTRUCTIONS/COMMENTS:

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES. SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-62 1-5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-001	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	5460		217	500	mg/Kg-dry	237845	1	02/01/2017 13:56	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-62 6.5-7'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-002	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	8860		217	500	mg/Kg-dry	237845	1	02/01/2017 16:59	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-62 10-10.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-003	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	8160		217	500	mg/Kg-dry	237845	1	02/02/2017 10:48	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-62 17-17.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-004	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	827		217	500	mg/Kg-dry	237845	1	02/02/2017 11:23	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-62 18-18.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-005	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	515		217	500	mg/Kg-dry	237845	1	02/02/2017 12:19	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-62 22-22.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-006	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	1110		217	500	mg/Kg-dry	237845	1	02/02/2017 14:31	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-63 2.5-3'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-007	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	5840		217	500	mg/Kg-dry	237845	1	02/02/2017 16:38	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-63- 5.5-6'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-008	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	1080		217	500	mg/Kg-dry	237845	1	02/02/2017 17:12	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-63 12-12.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-009	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	567		217	500	mg/Kg-dry	237845	1	02/03/2017 11:03	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-63 18-18.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-010	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	665		217	500	mg/Kg-dry	237845	1	02/03/2017 12:09	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-63 23-23.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-011	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	660		217	500	mg/Kg-dry	237845	1	02/03/2017 13:13	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-63 26.5-27'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-012	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	743		217	500	mg/Kg-dry	237845	1	02/03/2017 14:55	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-64 2.5-3'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-013	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	2710		217	500	mg/Kg-dry	237893	1	02/06/2017 15:06	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-64 6.5-7'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-014	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	2590		217	500	mg/Kg-dry	237845	1	02/03/2017 16:43	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-64 12.5-13
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-015	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>					<b>(SW9060 Modified)</b>				
Total Organic Carbon (TOC)	246	J	217	500	mg/Kg-dry	237845	1	02/03/2017 17:13	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-64 23-23.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-016	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	2730		217	500	mg/Kg-dry	237893	1	02/06/2017 16:42	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-64 26-26.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-017	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	3030		217	500	mg/Kg-dry	237893	1	02/07/2017 11:03	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-65 3-3.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-018	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	1620		217	500	mg/Kg-dry	237893	1	02/07/2017 11:36	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-65 7-7.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-019	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	2410		217	500	mg/Kg-dry	237893	1	02/07/2017 12:42	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-65 13-13.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-020	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	483	J	217	500	mg/Kg-dry	237893	1	02/07/2017 14:17	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-65 18-18.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-021	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	BRL		217	500	mg/Kg-dry	237893	1	02/07/2017 14:45	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-65 23-23.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-022	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	548		217	500	mg/Kg-dry	237893	1	02/07/2017 16:16	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-65 27-27.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-023	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	495	J	217	500	mg/Kg-dry	237893	1	02/08/2017 11:00	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-66 1.5-2'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-024	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	2160		217	500	mg/Kg-dry	237893	1	02/08/2017 11:36	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-66 7-7.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-025	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	3670		217	500	mg/Kg-dry	237893	1	02/08/2017 12:26	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-66 12-12.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-026	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	7680		217	500	mg/Kg-dry	237893	1	02/08/2017 14:10	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-66 19-19.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-027	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	791		217	500	mg/Kg-dry	237893	1	02/08/2017 14:46	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-67 6-6.5'
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-028	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	1020		217	500	mg/Kg-dry	237893	1	02/08/2017 16:06	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-67 11-11.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-029	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	1640		217	500	mg/Kg-dry	237900	1	02/09/2017 12:08	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative



**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-67 19-19.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-030	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	271	J	217	500	mg/Kg-dry	237900	1	02/09/2017 13:11	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-68 4-4.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-031	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	4030		217	500	mg/Kg-dry	237900	1	02/09/2017 14:53	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-68 7-7.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-032	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	4880		217	500	mg/Kg-dry	237900	1	02/09/2017 16:32	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-68 12-12.5
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-033	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	454	J	217	500	mg/Kg-dry	237900	1	02/09/2017 17:01	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

**Analytical Environmental Services, Inc**

**Date:** 13-Feb-17

<b>Client:</b> Newfields	<b>Client Sample ID:</b> MW-68 19.5-20
<b>Project Name:</b> Colonels Island	<b>Collection Date:</b> 1/28/2017
<b>Lab ID:</b> 1701O87-034	<b>Matrix:</b> Soil

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
<b>Total Organic Carbon SW9060A Modified</b>				<b>(SW9060 Modified)</b>					
Total Organic Carbon (TOC)	932		217	500	mg/Kg-dry	237900	1	02/10/2017 10:47	JW

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Not detected at MDL
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- NC Not confirmed

- E Estimated value above quantitation range
- S Spike Recovery outside limits due to matrix
- J Estimated value detected below Reporting Limit
- > Greater than Result value
- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Newfields

Work Order Number 1701087

Checklist completed by [Signature] Date 1/30/17

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present   
Custody seals intact on shipping container/cooler? Yes  No  Not Present   
Custody seals intact on sample bottles? Yes  No  Not Present   
Container/Temp Blank temperature in compliance? (0°≤6°C)\* Yes  No

Cooler #1 07 Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler#5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No   
Chain of custody signed when relinquished and received? Yes  No   
Chain of custody agrees with sample labels? Yes  No   
Samples in proper container/bottle? Yes  No   
Sample containers intact? Yes  No   
Sufficient sample volume for indicated test? Yes  No   
All samples received within holding time? Yes  No   
Was TAT marked on the COC? Yes  No   
Proceed with Standard TAT as per project history? Yes  No  Not Applicable   
Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No   
Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_  
Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: Newfields  
 Project Name: Colonels Island  
 Workorder: 1701087

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 237845

Sample ID: <b>MB-237845</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>01/30/2017</b>	Run No: <b>336219</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237845</b>	Analysis Date: <b>02/01/2017</b>	Seq No: <b>7339259</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC) BRL 500

Sample ID: <b>LCS-237845</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>01/30/2017</b>	Run No: <b>336219</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237845</b>	Analysis Date: <b>02/01/2017</b>	Seq No: <b>7339261</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC) 4491 500 6030 74.5 70 130

Sample ID: <b>1701087-001ADUP</b>	Client ID: <b>MW-62 1-5'</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>01/30/2017</b>	Run No: <b>336219</b>							
SampleType: <b>DUP</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237845</b>	Analysis Date: <b>02/01/2017</b>	Seq No: <b>7339264</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC) 5448 500 0 0 50

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: Newfields  
 Project Name: Colonels Island  
 Workorder: 1701087

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 237893

Sample ID: <b>MB-237893</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>02/02/2017</b>	Run No: <b>336271</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237893</b>	Analysis Date: <b>02/06/2017</b>	Seq No: <b>7340621</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

BRL 500

Sample ID: <b>LCS-237893</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>02/02/2017</b>	Run No: <b>336271</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237893</b>	Analysis Date: <b>02/06/2017</b>	Seq No: <b>7340622</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

5011 500 6030 83.1 70 130

Sample ID: <b>1701087-016ADUP</b>	Client ID: <b>MW-64 23-23.5</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>02/02/2017</b>	Run No: <b>336271</b>							
SampleType: <b>DUP</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237893</b>	Analysis Date: <b>02/06/2017</b>	Seq No: <b>7340631</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

2511 500 2726 8.21 50

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



**Client:** Newfields  
**Project Name:** Colonels Island  
**Workorder:** 1701087

**ANALYTICAL QC SUMMARY REPORT**

**BatchID: 237900**

Sample ID: <b>MB-237900</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>02/06/2017</b>	Run No: <b>336284</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237900</b>	Analysis Date: <b>02/09/2017</b>	Seq No: <b>7340979</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

BRL 500

Sample ID: <b>LCS-237900</b>	Client ID:	Units: <b>mg/Kg-dry</b>	Prep Date: <b>02/06/2017</b>	Run No: <b>336284</b>							
SampleType: <b>LCS</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237900</b>	Analysis Date: <b>02/09/2017</b>	Seq No: <b>7340980</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

4237 500 6030 70.3 70 130

Sample ID: <b>1701087-029ADUP</b>	Client ID: <b>MW-67 11-11.5</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>02/06/2017</b>	Run No: <b>336284</b>							
SampleType: <b>DUP</b>	TestCode: <b>Total Organic Carbon SW9060A Modified</b>	BatchID: <b>237900</b>	Analysis Date: <b>02/09/2017</b>	Seq No: <b>7340982</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Total Organic Carbon (TOC)

1511 500 1643 8.37 50

<b>Qualifiers:</b>	> Greater than Result value	< Less than Result value	B Analyte detected in the associated method blank
	BRL Below reporting limit	E Estimated (value above quantitation range)	H Holding times for preparation or analysis exceeded
	J Estimated value detected below Reporting Limit	N Analyte not NELAC certified	R RPD outside limits due to matrix
	Rpt Lim Reporting Limit	S Spike Recovery outside limits due to matrix	



## **Appendix D**

### **Sampling and Analysis Plan**

### **Quality Assurance Project Plan**



Symrise Inc.

## Sampling and Analysis Plan

209 SCM Road  
Brunswick, Glynn County, Georgia  
EPD ID: GAD980847339

December 2021

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## LIST OF APPENDICES

Appendix A	Sampling Equipment Standard Operating Procedures
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## LIST OF ACRONYMS

AEM	Advanced Environmental Management
CLP	Contract Laboratory Program
DO	Dissolved Oxygen
EPA	United States Environmental Protection Agency
EPD	Environmental Protection Division
FB	Field Blank
ft	Feet
ID	Identification
IDW	Investigation Derived Waste
LSASD	Laboratory Services and Applied Science Division
MCL	Maximum Contaminant Levels
MNA	Monitored Natural Attenuation
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NTU	Nephelometric Turbidity Units
ORP	Oxygen Reduction Potential
PPE	Personnel Protection Equipment
QA	Quality Assurance
QAPP	Quality Assurance Project Plan
QC	Quality Control
RB	Rinsate Blank
SAP	Sampling and Analysis Plan
SC	Specific Conductance
SOP	Standard Operating Procedure
SW-846	EPA Test Methods for Evaluating Solid Waste Physical/Chemical Methods
TAL	Target Analyte List
TB	Trip Blank
ug/L	microgram per liter
VOC	Volatile Organic Compounds

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## 1.0 INTRODUCTION

This Field Sampling and Analysis Plan (SAP) describes the procedures to be used during the sampling and data gathering activities in support of the groundwater monitoring for the Colonels Island Site (the Site). This SAP describes the activities used to monitor progress toward and achievement of the groundwater monitoring objectives. Sampling and data gathering activities will be conducted in accordance with the most recent United States Environmental Protection Agency (EPA) Region IV Laboratory Services and Applied Sciences Division (LSASD) procedures.

This SAP is written so that a field team unfamiliar with the Site will be able to gather the samples and field information required by the groundwater monitoring events. The companion Quality Assurance Project Plan (QAPP) describes the laboratory analytical program and overall quality assurance/quality control (QA/QC) program that will be implemented in conjunction with this SAP in support of the groundwater monitoring. The procedures described in this SAP include:

- Preliminary activities,
- Identification of samples,
- Collection of groundwater samples,
- Documentation of field activities,
- Preparation of QA/QC samples,
- Equipment decontamination,
- Disposal of investigation-derived waste, and
- Sample custody, handling, and shipping.

---

## 2.0 PRELIMINARY ACTIVITIES

Proper preparation is essential to successful environmental sampling activities. The preliminary activities set forth below will be completed before the field personnel mobilize to ensure that the sampling is performed correctly and safely.

- 1) The Project Manager for the sampling event will notify the laboratory [Pace Analytical Services (Pace)] of the upcoming sampling event so that the laboratory can prepare the appropriate type and number of sample containers. The anticipated number of sampling sites and media, the list of parameters to be analyzed, the replicate requirements, and the number of extra sample containers needed for QA/QC testing will be specified to the Laboratory Project Manager.
- 2) All equipment and supplies to be used during the fieldwork will be assembled and inspected.
- 3) Field equipment, supplies, and sample containers will be shipped to the Site at 209 SCM Road, Brunswick, Georgia 31523.
- 4) All forms to be used in the field (including the field logbook, chain-of-custody forms, soil boring logs, etc.) will be assembled.
- 5) If appropriate, sample containers will be "pre-labeled" during the preliminary phase of the sampling event. Indelible ink (e.g., "Sharpie's") will to be used to label all sample containers. Certain information (e.g., project name, requested analysis, preservative, and type of parameters) will be affixed to the label during the pre-field activities. Other information (e.g., sample designation, sample time and date, sampler's name, etc.) will be added to the label once the sample has been collected. A cross-reference to the information contained on the label will be documented in the field logbook to correspond with the sample location.
- 6) The Project Manager will review sampling protocols and QC requirements with the sampling personnel. In addition, health and safety protocols will be reviewed in accordance with NewFields and AEMs' Health and Safety Plans.

---

### 3.0 SAMPLE DESIGNATIONS

There are close to 39 monitoring wells on the Site. Wells are designated UP-1 (background well) and MW-1 through MW-70 with several clustered groups that have varying depths. These clusters are designated with an “A”, “B”, “C”, or “D” after the well designation. Monitoring wells MW-38 and MW-37 each have four clustered wells of varying depths, and wells MW-62, MW-63, MW-64, and MW-65 each have two clustered wells of varying depths.

All samples will be identified in a consistent manner to facilitate sample tracking, database compilation and future evaluation. The first part of each sample designation will be the monitoring well number (shown on Figure 1) from which the sample is obtained. The second part of each sample designation will be the date on which the sample was collected. Examples of each type of sample identification are provided below.

- **MW-1-05122017**: Well MW-1 collected on May 12, 2017.
- **MW-38B-05242017**: Well MW-38B collected on May 24, 2017.

Field duplicate samples will be assigned a fictitious location number and will not be identifiable as a duplicate to the analytical laboratory for QC purposes. Duplicate sample designations will be documented in the field logbook with their corresponding field sample designations. Matrix spike samples (MS) and matrix spike duplicate samples (MSD) will not be identified in the sample ID but will be indicated in the field logbook and on the chain-of-custody.

#### ***QA Sample Identification Number***

Trip blanks, field blanks, and equipment rinsate blanks shall be identified with the following designations and the date of sample collection.

#### ***Common designations:***

- TB – trip blank;
- FB – field blank; and
- RB – equipment rinsate samples

For example, if a rinsate blank sample were collected on May 25, 2017, it would be designated “RB05252017.” Trip blanks will be assigned the date that they are shipped to the laboratory with the analytical samples. Any pertinent information regarding sample collection (i.e., equipment used for the rinsate blank, water sources, etc.) shall be described in the field logbook. All of the sample identification numbers shall be placed in the field logbook and on the chain-of-custody form as outlined in Section 6.0 of the QAPP.

The location number, date, time, and any description made for all samples will be logged in a bound field logbook for proper documentation. All field notes, chain-of-custody records, and information pertinent to the investigation will become a part of the permanent records for the Site.

QA/QC samples will be collected (or obtained from the laboratory) at the frequency outlined in the QAPP. QA/QC samples will be assigned an abbreviation that identifies the QA/QC type (i.e., TB for trip blank, RB for equipment rinsate blank, FB for field blank, etc.). Duplicate samples



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will be assigned a fictitious location number and will not be identifiable as a duplicate to the analytical laboratory for QC purposes. Duplicate sample designations will be documented in the field logbook with their corresponding field sample designations.

## 4.0 SAMPLING PROCEDURES

The Georgia Environmental Protection Division (EPD) oversight person will be given the opportunity to observe the groundwater monitoring events. The full data packages will be provided to EPD after each completed sampling event and an annual report will also be provided to EPD by April 1st of each year.

The sampling procedures utilized shall be in accordance with the procedures defined in EPA LSASD Guidance Document "Region 4 U.S. Environmental Protection Agency Science and Ecosystems Support Division, Groundwater Sampling" (SESDPROC-301-R4, EPA, 2017). The analytical data generated by the groundwater monitoring events shall be evaluated for volatile organic compounds (VOCs) listed in the Contract Laboratory Program (CLP) Target Analyte List (TAL) and will be analyzed using EPA Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846) Method 8260D.

Upon validation, the data shall be compared against the EPA Maximum Contaminant Levels (MCLs) listed in Table 1.

**Table 1 EPA Maximum Contaminant Levels**

Analyte	MCL (in ug/L)	Analyte	MCL (in ug/L)
Vinyl chloride	2	1,1,2-Trichloroethane	5
1,1-Dichloroethene	7	Tetrachloroethylene	5
Methylene chloride	5	Dibromochloromethane	80
trans-1,2-Dichloroethylene	100	1,2-Dibromoethane	0.05
cis-1,2-Dichloroethylene	70	Chlorobenzene	100
Chloroform	80	Ethylbenzene	700
1,1,1-Trichloroethane	200	o-Xylene	10,000
Carbon tetrachloride	5	m & p-Xylenes	10,000
Benzene	5	Styrene	100
1,2-Dichloroethane	5	Bromoform	80
Trichloroethylene	5	1,2-Dichlorobenzene	600
1,2-Dichloropropane	5	1,4-Dichlorobenzene	75
Bromodichloromethane	80	1,2-Dibromo-3-chloropropane	0.2
Toluene	1000	1,2,4-Trichlorobenzene	70

At the present time, groundwater monitoring will be conducted once a year in even number years and twice annually in odd numbered years, typically in the spring and fall . Some accommodations will be made to coordinate sampling with the operating facility's production schedule. The groundwater data will be used to develop a dataset that can be used to evaluate data trends and demonstrate monitored natural attenuation (MNA) is continuing.

---

## 5.0 GROUNDWATER SAMPLING PROCEDURES

Groundwater samples will be collected using low-flow peristaltic pumps, Horiba® flow through cells, and Teflon®-lined disposable bailers. The SOPs for the sampling equipment can be found in Appendix A of this SAP.

### 5.1 Considerations for VOC analysis

Groundwater samples for VOC analysis must be collected in 40 mL glass vials with Teflon® septa. The vial may be either preserved with concentrated hydrochloric acid or they may be unpreserved. Preserved samples have a two-week holding time, whereas unpreserved samples have only a seven-day holding time. In the great majority of cases, the preserved vials are used to take advantage of the extended holding time. In some situations, however, it may be necessary to use the unpreserved vials. For example, if the groundwater has a high amount of dissolved limestone, i.e., is highly calcareous, there will most likely be an effervescent reaction between the hydrochloric acid and the water, producing large numbers of fine bubbles. This will render the sample unacceptable. In this case, unpreserved vials should be used, and arrangements must be confirmed with the laboratory to ensure that they can accept the unpreserved vials and meet the shorter sample holding times.

The samples should be collected with as little agitation or disturbance as possible. The vial should be filled so that there is a meniscus at the top of the vial and absolutely no bubbles or headspace should be present in the vial after it is capped. After the cap is securely tightened, the vial should be inverted and tapped on the palm of one hand to see if any undetected bubbles are dislodged. If a bubble or bubbles are present, the vial should be topped off using a minimal amount of sample to re-establish the meniscus. Care should be taken not to flush any preservative out of the vial during topping off. If, after topping off and capping the vial, bubbles are still present, a new vial should be obtained and the sample re-collected.

Samples for VOC analysis must be collected using either stainless steel or Teflon® equipment, such as:

- RediFlo2® submersible pumps used for sampling should be equipped with Teflon® sample delivery tubing,
- Teflon®-lined disposable bailers, and
- Peristaltic pump/vacuum jug assemblies should be outfitted with Teflon® tubing from the water column to the transfer cap, which should also be constructed of Teflon®

### 5.2 Groundwater Sample Collection Procedures

Groundwater samples will be collected as follows:

- 1) Document the monitoring well identification (ID)/location of the sampling point in the field logbook.

- 
- 2) Measure the level of groundwater in the well and gauge for the presence of LNAPL according to SOP LSASDPROC-105-R4 (found in Appendix B) and record it in the field logbook.
  - 3) Calculate the volume of water in the well by the following equation:  
Volume (gallons) =  $\pi \times \text{radius}^2 \text{ (ft)} \times \text{height of water column (ft)} \times 7.48 \text{ (gallons/ft}^3\text{)}$
  - 4) If any LNAPL is detected, the LNAPL will be removed using a bailer, drummed for off-site disposal, and the well will not be sampled.
  - 5) Purge three well volumes prior to collecting any readings from the well.
  - 6) When three well volumes have been purged from the well, begin taking readings every five to ten minutes for dissolved oxygen (DO), oxygen reduction potential (ORP), pH, temperature, specific conductance (SC), and turbidity. [Please see Standard Operating Procedures (SOPs) SESDPROC- 106-R4, SESDPROC-113-R2, LSASDPROC-100-R5, SESDPROC-102-R5, LSASDPROC-101-R7, and SESDPROC-103-R4 in Appendix B of this SAP]. Sampling can begin when the turbidity of the groundwater is below 10 nephelometric turbidity units (NTU) and the remaining parameters are consistently within ten percent of each consecutive reading.
  - 7) Once the groundwater quality parameters have stabilized, the pump should be shut off and tubing removed from the well.
  - 8) A Teflon<sup>®</sup>-lined disposable bailer will be used to collect the groundwater sample. The bailer should be lowered to the approximate depth of the tubing, and several bailers of water should be removed before collecting the sample. A new bailer and string should be used for each individual well.
  - 9) The sample containers should be filled directly from the bailer. Efforts should be made to minimize sample agitation during the collection process.
  - 10) During sample collection, make sure that the pump discharge line does not contact the sample container.
  - 11) Place the sample into appropriate, labeled containers. Samples collected for VOC analysis must not have any headspace. All other sample containers must be filled with an allowance for ullage.
  - 12) All samples requiring preservation must be preserved as soon as practically possible, ideally immediately at the time of sample collection. If preserved VOC vials are used, these will be preserved with concentrated hydrochloric acid by laboratory personnel prior to departure for the field investigation.
  - 13) Complete sample labeling and documentation according to Section 7 of this SAP.
  - 14) Place samples and laboratory provided trip blank in a cooler maintained at 4 degrees C.

---

## 6.0 DOCUMENTATION

Specific field forms will be used to record data and information during the field activities. Field logbooks will also be used during the fieldwork to document daily activities, including decontamination of equipment, set-up, sampling, sample packaging and shipment, and health and safety issues. Mistakes on the forms and logbooks will be crossed out with a single line and initialed.

Field personnel will maintain a permanently bound field logbook. This logbook must be water-resistant with sequentially numbered pages. Field activities will be recorded with a waterproof marker. The notebook, along with the chain-of-custody record, will contain sufficient information to allow reconstruction of the sample collection and handling procedures at a later date.

Each sample will have a corresponding logbook entry, which will include:

- A unique sample identification;
- Sample type (grab, duplicate, etc.);
- Analyses for which sample was collected;
- Method of preservation;
- Sampler's name;
- Time and date sample was collected;
- Water levels;
- Field measurement results; and
- Additional comments as necessary.

---

## **7.0 PREPARATION OF QUALITY ASSURANCE/QUALITY CONTROL SAMPLES**

Proper sampling protocols will be used so that samples are representative of the location being sampled, cross-contamination is not occurring, and that the samples are properly preserved and shipped to maintain sample integrity. Standard procedures will include using decontaminated sampling equipment for each sample; wearing a new pair of disposable nitrile gloves for each sample and during the decontamination process; placing the samples on ice in an ice chest immediately after sample collection; and following strict chain-of-custody procedures and packaging guidelines described in Section 10 of this SAP.

The QA/QC samples will consist of trip blanks, field duplicates, field blanks, equipment rinsate blanks and matrix spike/matrix spike duplicates (MS/MSD).

### **7.1 Duplicate Samples**

One field duplicate sample will be collected for every ten field samples. The groundwater duplicates will be samples taken from the same well and at the same time as the primary field sample. The duplicates for groundwater will be collected by obtaining enough sample volume to fill two sets of sample containers. The two samples will be duplicates for analysis by the contract laboratory; however, they will have different identifiers.

### **7.2 Field Blanks**

Field blanks will be collected by pouring laboratory-supplied reagent water directly into the sample containers. Sample collection will occur in the most contaminated area of the Site.

### **7.3 Equipment Blanks**

Equipment blanks will be collected by pouring laboratory-supplied reagent water over the decontaminated sampling equipment and directly into the sample containers. Sample collection will occur in the most contaminated area of a site.

### **7.4 Matrix Spike/Matrix Spike Duplicate Samples**

One MS/MSD sample will be collected for every 20 field samples. Three sets of sample containers must be filled for VOC MS/MSD samples (i.e., one set for the parent sample, one set for the MS, and one set for the MSD). The three sets will have the same sample designation however, one will be labeled for the MS and one will be labeled for the MSD.

---

## 8.0 DECONTAMINATION

The investigator's objective is to collect samples of the highest obtainable quality for analysis. All sampling equipment in contact with sample media will be decontaminated prior to use. The field decontamination procedures will be documented in the logbook by the field sampler and will be consistent with the procedures described below. All references to "clean" within this document indicate free from contamination.

### 8.1 Decontamination Procedures for Groundwater Sampling Equipment

All down hole equipment, including any pumps, will be decontaminated as described below:

- 1) Do not wet the controller. Always disconnect power from the pump when handling the pump body.
- 2) Disconnect and discard the previously used sample tubing from the pump. Remove the check valve and tubing adapters and clean separately. Wash the pump exterior with Liquinox® or Luminox® detergent and water.
- 3) Prepare and fill three containers with decontamination solutions, consisting of Container #1, a tap water/detergent washing solution. Luminox® is commonly used. An additional pre-wash container of Liquinox® may be used; Container #2, a tap water rinsing solution; and Container #3, a deionized or organic-free water final rinsing solution. Choice of detergent and final rinsing solution for all steps in this procedure is dependent upon project objectives (analytes and compounds of interest). The containers should be large enough to hold the pump and one to two liters of solution. An array of 2' long 2" PVC pipes with bottom caps is a common arrangement. The solutions should be changed at least daily.
- 4) Place the pump in Container #1. Turn the pump on and circulate the detergent and water solution through the pump and then turn the pump off.
- 5) Place the pump in Container #2. Turn the pump on and circulate the tap water through the pump and then turn the pump off.
- 6) Place the pump in Container #3. Turn the pump on and circulate deionized or organic-free water through the pump and then turn the pump off.
- 7) Disconnect power and remove pump from Container #3. Rinse exterior and interior of pump with fresh deionized or organic-free water.
- 8) Decontaminate the power lead by washing with detergent and water, followed by tap water and deionized water rinses. This step may be performed before washing the pump if desired.
- 9) Reassemble check valve and tubing adapters to pump. ALWAYS use Teflon® tape to prevent galling of threads. Firm hand-tightening of fittings or light wrench torque is generally adequate.

- 
- 10) Place the pump and reel in a clean plastic bag.
  - 11) Remove the ball check valve from the pump head. Check for wear and/or corrosion and replace as needed. During decontamination check for free flow in forward direction and blocking of flow in reverse direction.
  - 12) Using a brush, scrub all components with detergent and tap water.
  - 13) Rinse with deionized water.
  - 14) Rethread the ball check valve to the Redi-Flo2® pump head.

Organic free water applied from glass containers. Distilled water will not be substituted for deionized water. In addition, if heavily contaminated areas are encountered, equipment will be pre-cleaned using either Liquinox® or Luminox®.

To minimize cross contamination, fresh Teflon® tubing will be used in each well and for each groundwater monitoring sampling event.

## **8.2 Decontamination Procedures for Sample Containers**

The contracted laboratory will provide pre-cleaned sample containers. Sample containers will be cleaned by the laboratories following the appropriate EPA analytical method prior to field sampling or will be purchased clean. The analytical laboratories will provide a certificate with each lot of sample containers certifying they are clean.



---

## **9.0 DISPOSAL OF INVESTIGATION-DERIVED WASTE**

Investigation-derived waste (IDW) will consist of purged groundwater and disposable personnel protection equipment (PPE) and sampling equipment. The purged groundwater will be stored in 55-gallon drums onsite. At the conclusion of each monitoring event and investigation activities in accordance with all applicable federal, state, and local regulations, the IDW will be disposed at a facility approved to receive it. Non-hazardous groundwater may be processed through the Site's wastewater treatment facility. The disposable PPE and sampling equipment will be disposed of at an appropriate landfill.

---

## 10.0 SAMPLE HANDLING, PACKAGING, SHIPPING, AND CUSTODY DOCUMENTATION

### 10.1 Sample Handling

Completed labels will be affixed to all sample containers before or at the time the sample is placed into the container. Each sample container will be placed inside a bubble wrap bag and will then be placed into a plastic bag, the bag will be sealed, and the sample will be placed on ice inside an ice chest.

Pertinent information about the sample will be noted in the field logbook and Sample Log Sheet of the sampler (see Section 7).

### 10.2 Sample Packaging and Shipping

Samples will be delivered to the laboratory by designated personnel as soon as they are collected and after the chain-of-custody has been completed. Arrangements will be made in advance with the laboratory to ensure that laboratory personnel are available to receive the samples upon arrival.

If overnight shipment is necessary, samples to be sent to the laboratory will be packaged and shipped in compliance with the Department of Transportation and International Air Transport Association regulations for the safe transportation of hazardous materials/dangerous goods.

The following equipment will be available at the Site in sufficient quantity for packaging and shipping all samples to be collected during a given sampling event.

- Clear shipping tape
- Custody seals
- Chain-of-custody forms
- Heavy-duty plastic coolers (Styrofoam coolers will not be used)
- Ziplock bags or equivalent (1-quart and 1-gallon size)
- Large garbage bags
- Sharpie pens (indelible ink)
- "This Side Up" labels
- "Fragile" labels
- Federal Express or overnight delivery labels
- Adhesive label forms (for lab destination and return address on outside of cooler)
- Grease pencils
- Ice
- Water/temperature vials
- Bubble wrap

---

The following procedure will be used to prepare the samples for shipment.

- 1) Use a heavy strength plastic cooler or ice chest only.
- 2) Check all sample containers to ensure that they are properly labeled and properly sealed.
- 3) Complete the chain-of-custody form for the sample.
- 4) Place a sheet of bubble wrap in the bottom of the cooler.
- 5) Line the inside of the cooler with a large garbage bag. All samples will be placed inside the garbage bag.
- 6) Wrap the sample container in bubble wrap. Place the sample wrapped in bubble wrap in a clear plastic Ziplock bag. Only one sample will be placed in each Ziplock bag. Eliminate air from the bag prior to sealing it.
- 7) Place each container upright in the cooler so that no container is touching another container or the side of the cooler.
- 8) Fill an empty vial with potable water, label it as a temperature blank, and place it in the cooler with the sample containers. The temperature of the water in the vial will equalize with the temperature inside the cooler during shipment. The laboratory will measure the temperature of the water in the vial upon receipt of the cooler at the laboratory.
- 9) Place ice in 1-gallon or 1-quart Ziplock bags. Remove the air from each bag and seal. Double bag each Ziplock bag of ice.
- 10) Place ice bags around, among, and on top of the sample containers so that any remaining space in the cooler is filled.
- 11) Fill any remaining space in the cooler with bubble wrap leaving just enough space for the cooler lid to be closed without pressure.
- 12) Retain one copy of the completed and signed chain-of-custody form for the samples inside the cooler. Place the remaining copies of the completed and signed chain-of-custody form inside a Ziplock bag. Remove air from the bag and seal the bag. Tape the sealed bag to the inside of the cooler lid.
- 13) Close the garbage bag over the samples and tape it closed so that it is sealed.
- 14) Place name and address of off-site laboratory inside a Ziplock bag and secure with tape to the top of the garbage bag.
- 15) Tape the cooler drain shut.
- 16) Secure the cooler lid by taping with clear tape in at least three locations, two of which are at right angles to each other.

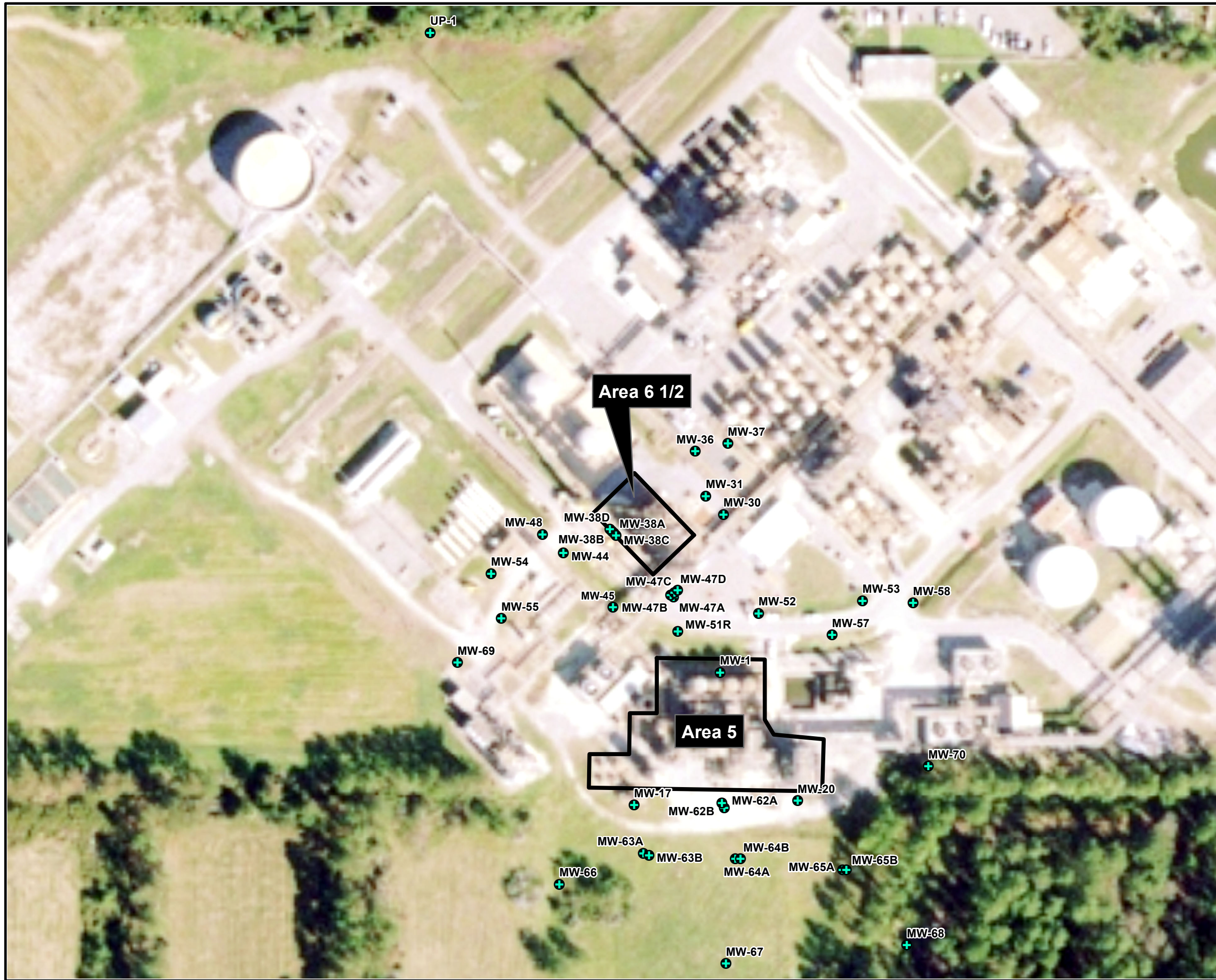
- 
- 17) Attach the completed shipping label to the top of the cooler. If shipping multiple coolers on the same day, note the cooler number on the shipping label (e.g., 1 of 3, 2 of 3, etc.).
  - 18) Place "This Side Up" labels (with arrows pointing to the top of the cooler) on all four sides of the cooler. If no arrows are present on the label, place one label on the cooler lid. Place "Fragile" labels on at least two sides of the cooler. The labels will not be overlapped or taped over.
  - 19) Affix signed custody seals over the cooler's lid closure on the front right and back left of the cooler.

The shippers' weight limits must not be exceeded. If the cooler is so heavy that the weight limits are exceeded, the samples must be repackaged into two or more coolers.

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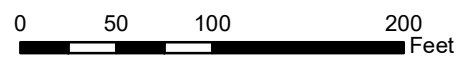
## 11.0 REFERENCES

- EPA. 2000. Test Methods for Evaluating Solid Wastes Physical/Chemical Methods, SW 846, Third Edition. Office of Solid Waste and Emergency Response. Update IVB, November.
- EPA. 2019. EPA Contract Laboratory Program Statement of Work for Superfund Analytical Methods, Multi-Media, Multi-Concentration, SFAM01.0. May 2019.
- EPA. 2020. *Region IV Laboratory Services and Applied Science Division (LSASD) Quality Management Plan*. LSASDPLAN-1000-R05. March 2020.



**Legend**

- + Well Locations
- Site Areas



Title		<b>Groundwater Monitoring Wells</b>	
Project		<b>Colonels Island Brunswick, Georgia</b>	
		Two Midtown Plaza 1349 West Peachtree Street, Suite 1950 Atlanta, Georgia 30309 Tel: 404-347-9050 ~ Fax: 404-347-9080	
Date	12/14/2021	Rev. No.	1
MXD	GISICIO.mxd	Figure No.	1

## **Appendix A**

### **Sampling Equipment Standard Operating Procedures**

# HORIBA

# navi<sup>h</sup>

pH



## INSTRUCTION MANUAL

pH METER  
D-52/D-53/  
D-54/D-55



**HORIBA** Ltd.



## Preface

Thank you for purchasing one of the D-50 Series pH meters.

This meter is designed with a compact body that can be held in one hand and features a water-resistant construction Note 1. It has a large-sized LCD display, which enables to use the varied functions by simple operations, and especially will be convenient to use on-location.

Carefully read this manual before using the meter.

Note 1: The water-resistant construction of this meter conforms to IP-67 of IEC 529, entitled "Water resistant testing and protection against penetration by solid matter for electrical machinery and equipment." To maintain the water-resistant construction of this meter, follow the instructions in this manual when using the meter.

IP-67 standards

- Dust does not get into internal parts.
- Water does not flow into internal parts when the meter is submerged 1 m below the surface of the water for 30 minutes, at a temperature differential between the water and the device of 5 °C or less.

## HORIBA's Warranty and Responsibility

Your meter is covered by HORIBA's warranty for a period of one (1) year, under normal use. Although unlikely, if any trouble attributable to HORIBA should occur during this period, necessary exchange or repairs shall be conducted by HORIBA, free of charge. The warranty does not cover the following:

- Any trouble or damage attributable to actions or conditions specifically mentioned to be avoided in the operation manuals
- Any trouble or damage attributable to use of the meter in ways or for purposes other than those described in the operation manuals
- If any repairs renovations, disassembly, etc. are performed on this meter by any party other than HORIBA or a party authorized by HORIBA
- Any alteration to the external appearance of this pH meter attributable to scratches, dirt, etc. occurring through normal use
- Wear and tear to parts, the exchange of accessories, or the use of any parts not specified by HORIBA

HORIBA also shall not be liable for any damages resulting from any malfunctions of this product, any erasure of data, or any other uses of this product.

## Unauthorized reprinting or copying of this operation manual

No unauthorized reprinting or copying of all or part of this operation manual is allowed. The utmost care has been used in the preparation of this operation manual. If, however, you have any questions or notice any errors, please contact the HORIBA customer service center printed on the back cover of this operation manual.

## Precautions for use

---

### CE Marking



This product is in conformity with the following directives and standards:

Directives: The EMC Directives 89/336/EEC  
The Electrical Product Safety Directive 73/23/EEC

Standards: EN61326: 1997+A1:1998  
(EMISSION: Class B, IMMUNITY Category: Minimum Requirement)  
EN61010-1: 2001

Installation Environment

This product is designed for the following environment.

- Pollution degree 2
- Measurement category

WARNING: Do Not use the equipment for measurements within measurement categories

, and .

### FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Precautions for use

---

### Type and Definition of Signal Words

For the safety use, the meter is equipped with the Warning Labels to alert every operator and user to the possible risk and danger. Before using understanding each message.

The meaning of signal words are as follows:

- (WARNING)** This indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.
- (CAUTION)** This indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert unsafe practices.

### Safety Precautions

For the safety use, be sure to read the following precautions:

 **WARNING:**

Do not use any unspecified AC adapters.  
Heat or fire may occur to cause fire or accidents.  
Do not disassemble or modify the meter.  
Heat or fire may occur to cause fire or accidents.

 **CAUTION:**

Do not use the serial communication or AC adapter in the place that may possibly contact with moisture.  
It may cause fire, electric shock, or breakage.  
Part of the electrode is made of glass; handle with care not to break it.

## Precautions for use

---

### Indication

#### **WARNING**

This indicates a potentially hazardous situation which, if not avoided, will result in death or serious injury.

#### **CAUTION**

This indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert unsafe practices.

#### — **Note** —

This mark indicates the operation requires a special care and attention.

#### — **Ref.** —

This mark indicates to which the reader should go for reference.

#### — **HINT!** —

This mark indicates reference information.

## Precautions for use

---

### Cautionary Items

#### Precautions

Do not give physical shock to the meter like dropping or hitting.  
Do not immerse the meter into alcohol, organic solvent, strong acid, strong alkaline, and other similar solutions. The meter contains ABS resin, acrylic resin, and various rubber products in its body.

Do not use a hair-dryer for drying the meter. When the meter is dropped into water or get wet, wipe it using soft cloth.

Perform the key operation by the fingers, not by the hard object like metal stick or rod.

Be careful not to let water into the meter when the electrode connector is empty or the AC adapter or serial communications cable has been connected. In those states, the meter is not water-proof.

To disconnect the electrode cable or interface cable, pull them out with holding the connector part. Do not pull the cable part; it may cause a breakage.

Do not remove the battery gasket or twist it.

When opening the battery case, make sure that no foreign matter is attached to the battery gasket.

Do not use any unspecified batteries ; it may cause a breakage.

#### Location of use and storage

The place which room temperature is at 0 to 45

The place which relative humidity is under 80% and free from condensation

#### **Do not use or store the meter at;**

The place of much dust

The place with strong vibration

The place with direct sunlight

The place with corrosive gas generation

The place near from an air-conditioner

The place with direct wind

#### Move and Transportation of the meter

To transport the meter, use the packaging box at the delivery. Transportation by any unspecified packing methods may cause a breakage.

#### Disposal

Standard solution used for the calibration must be under neutralization before the disposal. As for the disposal of the meter, treat it as an industrial waste.

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# 1 Overview of the Meter

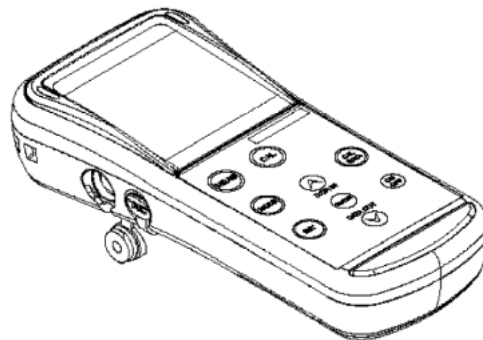
This chapter explains the part names, how to connect the electrodes, how to replace the batteries, and precautions when using the meter.

## 1.1 Package contents

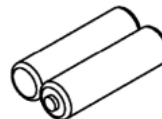
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The following items are shipped with each HORIBA pH meter package.

**Meter (main unit) 1 unit**



**Dry-cell batteries 2 pcs.**



**Strap 1 pc**



## 1 Overview of the Meter

### 1.1 Package contents

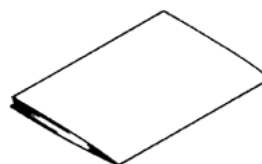
**Soft case**                      **1 pc**



**Protective cap**                **1 pc (D-53,54,55)**



**Operation manual**        **1 book**



---

**Note**

To take measurements, you will need electrode(s).  
Refer to “7.10 Spare and optional parts” page 208 when  
purchasing the electrode(s).

---

## 1.2 Functions

The D-50 Series features the following functions.

### Measurement items

Items	Model				Required electrode/ standard solution
	D-52	D-53	D-54	D-55	
pH					pH electrode, pH standard solution
ORP (mV)					ORP electrode
ION	-		-	-	ION electrode, Ion standard solution
Conductivity	-	-		-	Conductivity electrode, Conductivity standard solution
Dissolved oxygen	-	-	-		DO electrode
Temperature					-

### Functions

An overview of the functions found on HORIBA D-50 Series is shown below.

Function	Explanation	Model				Page No.
		D-52	D-53	D-54	D-55	
Data memory	Enables a maximum of 300 items to be stored.					page 65
pH repeatability check	Displays the difference between the calibration value and measured value after calibration.					page 32

# 1 Overview of the Meter

## 1.2 Functions

Function	Explanation	Model				Page No.
		D-52	D-53	D-54	D-55	
pH calibration history display	Displays the date of calibration, asymmetrical potential and sensitivity.					page 68
Relative mV display	Displays mV when the measured potential is shifted to 0 mV.					page 38
ION calibration history display	Displays date of calibration and the offset potential/ sensitivity.	-		-	-	page 70
Clock	The date and time are displayed.					page 73
Auto Power OFF	Turns ON/OFF setting that automatically turns power OFF if no keys are touched for 30 minutes.					page 94
RS-232C communications	Enables communication with a computer, using RS-232C.					page 99
Printer output	Prints the contents of the memory (printer sold separately).					page 129
Commercial power supply	Enables the use of commercial power, using an AC adapter (sold separately).					page 18

## Setting Items

Function	Explanation	Model				Page No.
		D-52	D-53	D-54	D-55	
pH standard solution setting	Enables standard solution used for calibration to be changed to NIST and US specifications settings.					page 77
pH temperature compensation	Enables temperature compensation to be conducted in pH Measurement mode, either manually or using a temperature sensor.					page 80
Auto data memory	Stores data automatically at an interval of 2 sec. to 24 hours.					page 81
pH calibration frequency setting	Sets the next calibration time according to the number of measurements made after calibration.					page 83
Sample ID	ID No. of the sample					page 84
Ion unit	Toggles between g/L and mol/L.	-		-	-	page 85
Ion slope	Displays the valence of measured ion.	-		-	-	page 86

## 1 Overview of the Meter

### 1.2 Functions

Function	Explanation	Model				Page No.
		D-52	D-53	D-54	D-55	
COND unit	Toggles between S/m and S/cm.	-	-		-	page 86
COND temperature coefficient	Automatically or manually sets a temperature coefficient for a sample.	-	-		-	page 87
DO salinity compensation	Compensates for salinity of sample.	-	-	-		page 88
DO atmospheric pressure compensation	Compensates for atmospheric pressure at measurement site.	-	-	-		page 89

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**Note**

RS-232C communications and the printer cannot be used simultaneously.

---

## Functions in Maintenance mode

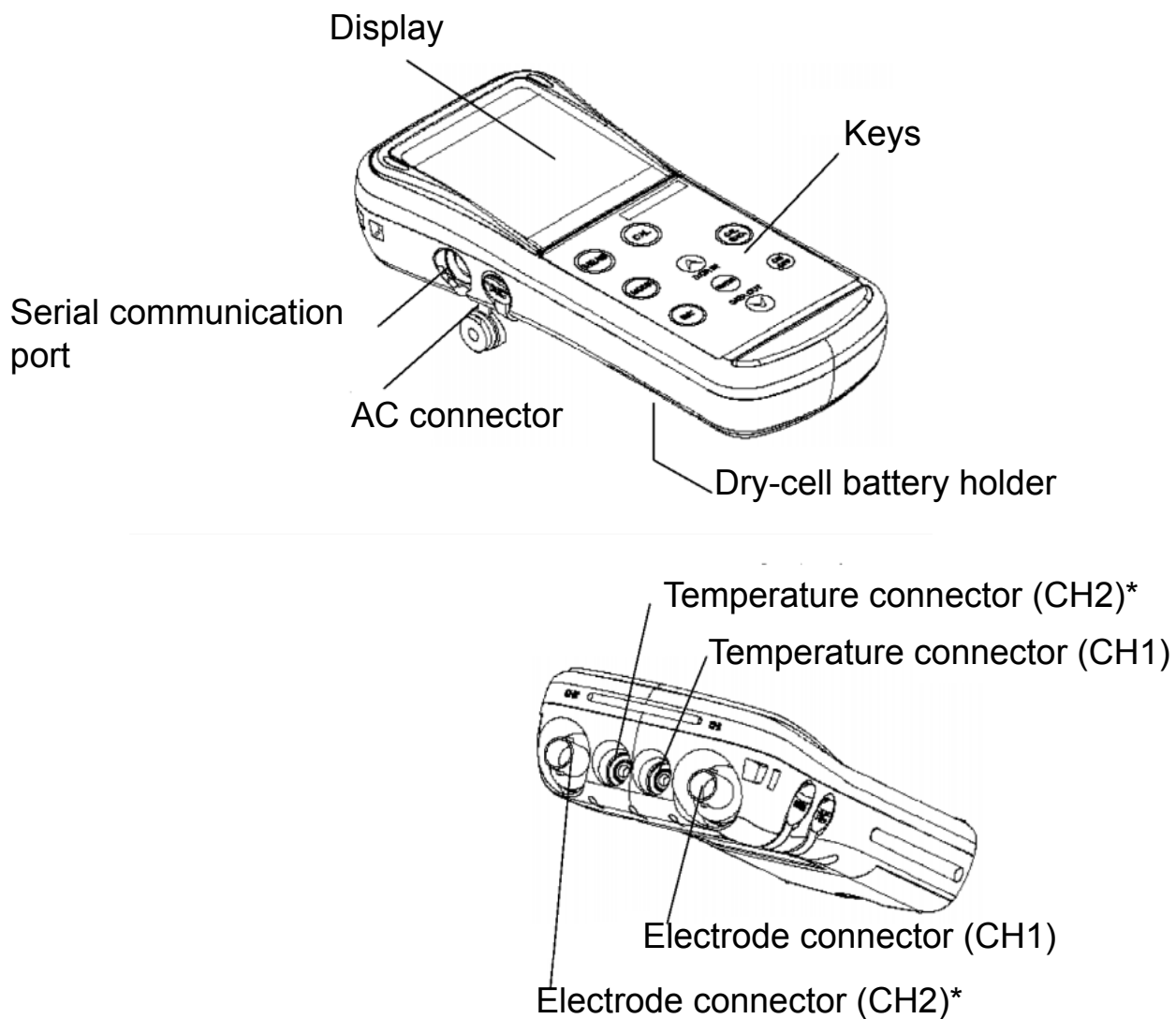
Function	Explanation	Page No.
LCD check	Enables check for whether or not all LCD segments are displayed.	page 91
Battery voltage check	Enables simple check of battery voltage.	page 92
Temperature display calibration	Adjusts the display of the temperature sensor to the actual temperature.	page 93
Auto Power OFF	Sets the function that automatically turns the power OFF if no keys are touched 30 minutes.	page 94
pH/ION CH setting (D-53 only)	Changes pH/ION measurement channel.	page 95
Remaining data memory	Displays the remaining memory.	page 96
Data memory clear	Deletes data in memory.	page 96
Initializing settings	Initializes all settings to the default values.	page 97
Printing test	Conducts a printing test.	page 98



## 1.3 Part names

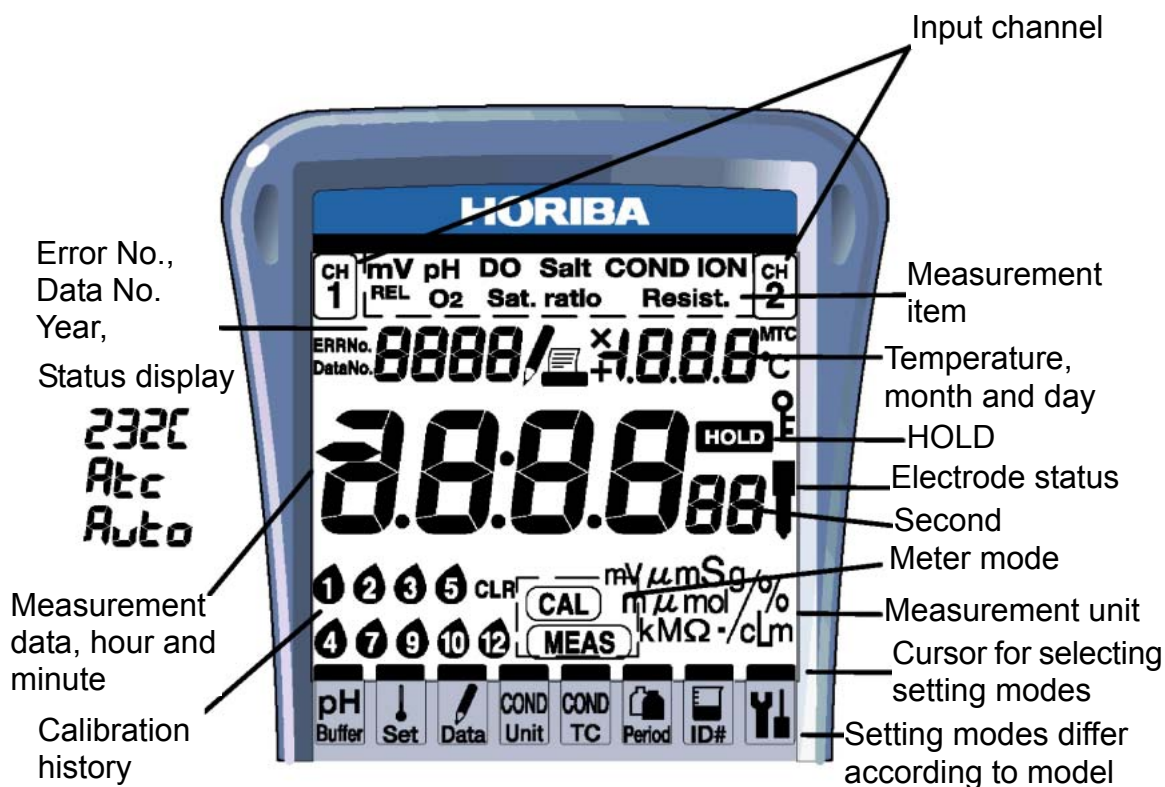
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The D-52/53/54/55 pH meters have the following parts:












\* The D-52 has CH1 only.







## 1.4 Explanation of display



Part name	Display	Contents
Input channel	<b>CH 1</b>	Input channel 1
	<b>CH 2</b>	Input channel 2
Measurement item	<b>mV</b>	Displayed when measuring mV
	<b>pH</b>	Displayed when measuring pH
	<b>DO</b>	Displayed when measuring dissolved oxygen
	<b>COND</b>	Displayed when measuring conductivity
	<b>ION</b>	Displayed when measuring ions
	<b>REL</b>	Displayed in mV Measurement mode, when relative mV is being set
Error No.	<b>ERRNo.</b>	Displayed when an error is generated










1 Overview of the Meter  
 1.4 Explanation of display

Part name	Display	Contents
Data No.	<b>DataNo.</b>	Displayed when the data number has been set.
Status display		Shows error number and data number.
		Displayed when AUTO data memory is being performed.
		Displayed when the serial communication is active.
		Displayed when temperature compensation function or automatic temperature compensation has been set.
		Displayed when NIST standard is selected at pH standard solution.
		Displayed when US standard is selected at pH standard solution.
		Displayed when custom standard is selected at pH standard solution.
-		Displayed during data memory function (for 3 sec.). Displayed while data in memory is being called up and when manual data memory is being called up, or blinks when automatic data memory is being called up.
-		Displayed when a printer is connected. (Sometimes displayed when a computer is connected depending on the computer.)
-	<b>MTC</b>	Displayed during manual temperature compensation. Not displayed during automatic temperature compensation.

Part name	Display	Contents
HOLD		Displayed while the data is held (HOLD status). Blinks during measurement or calibration.
Electrode status		(Only in pH Measurement mode) Not displayed: Normal Blinking: Cleaning is needed. Constant display: Replacement time is approaching.
Calibration history		Calibration history display: Displayed after calibration for pH and ION electrodes as calibration history.
		When no calibration data is available: Displayed when no calibration has been performed for pH and ION electrodes.
Meter mode		Displayed when in Measurement mode.
		Displayed when in Calibration mode.

## 1.5 Operation keys

This section describes the functions of the keys.

	Name	Description
	MEAS key	Returns to the Measurement mode. Starts measurement.
	MODE key	Selects measurement item.
	SET key	Selects setting item.
	CAL key	Enters the Calibration mode. Starts calibration.
	UP key	Executes the data memory function. Increases numerical value.
	ENTER key	Establishes the setting.
	DOWN key	Calls up data memory. Decreases numerical value.
	CAL DATA key	Calls up calibration data.
	ON/OFF key	Turns ON/OFF the power. This key takes effect only after pressed for one second to prevent accidental operation.

**Note**

The automatic power-off function is a default setting for this meter. The power is automatically turned OFF if no operation is performed after a period of approximately 30 minutes.

## 1.6 Connecting the electrodes

---

Connect the electrodes to the meter using the following procedure:

**Note**

- Do not allow any water to come into contact with the connector.
  - Do not touch the connector with uncleaned hands.
  - Hold the metal portion when turning the electrode connector.
- 

The following connectors are used depending on electrode type:

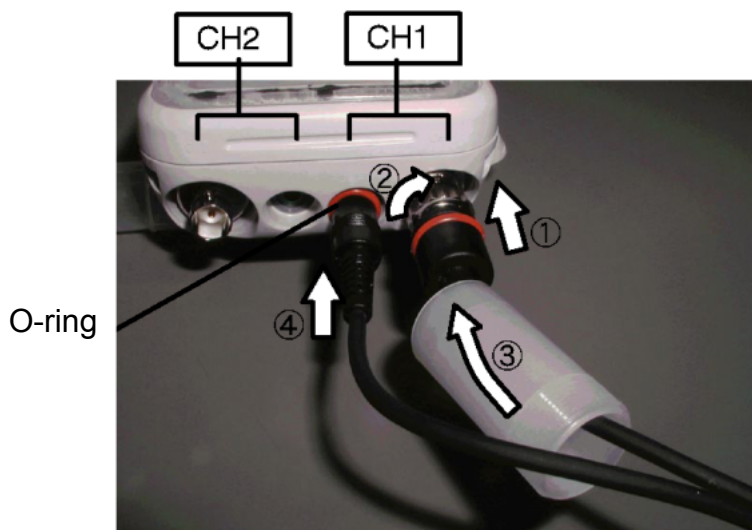
CH1 Electrode connector:	pH/ORP electrode
Temperature connector:	Temperature electrode for CH1
CH2 Electrode connector:	ION electrode (D-53) Conductivity electrode (D-54) DO electrode (D-55)
Temperature connector:	Temperature electrode for CH2

Connect the pH/ORP electrode to CH1.

Connect the ion/conductivity/DO electrode to CH2.

## Electrode connector (G-R electrode)

Ion/Conductivity/DO electrode      pH/ORP electrode




1. Insert the electrode connector, making sure to align the connector grooves with the pins in the connector port on the main unit (see photo, ). Do not push the electrode with undue force when the pins are not properly aligned.
2. Push the electrode connector into the connector port while turning it clockwise, following the grooves (see photo, and ).
3. Push the connector cover over the connector (see photo, ), being careful to push it straight on without turning it.

### Note

The meter will be waterproof only if this cover is placed properly over the connector.

## Temperature connector

1. Insert the temperature connector into the jack on the main unit until the O-ring on the electrode cannot be seen at all (see photo, ).

---

**Note**

The meter will not be waterproof if the electrode is not inserted properly.

---

---

**Note**

When the temperature electrode is not connected (or is connected improperly), the automatic temperature compensation (ATC) will be 25°C.

---



## 1.7 Inserting/replacing the dry-cell batteries

---

The dry-cell batteries are not placed in the meter before shipping. To insert the batteries, follow the procedure below.

Note that if “ERR 2” appears on the display while using the meter, it indicates that the charge of the dry-cell batteries is running low. When this occurs, replace the batteries promptly.

Dry-cell battery type: AA alkaline

---

### Note

- Insert the batteries, paying attention to the orientation of the battery poles ( “ + ” and “ - ” ).
  - Removing the batteries will erase the clock data. To save the clock data, remove and replace the batteries while the meter is connected to the AC adapter (sold separately).
  - Replace the batteries only after turning the power OFF. Any saved data will not be lost.
  - When opening and closing the battery cover, be careful that no water gets inside the meter.
  - Check that the rubber packing is not twisted and no foreign matter is stuck to it. Otherwise the meter may no longer be waterproof.
- 

---

### Note

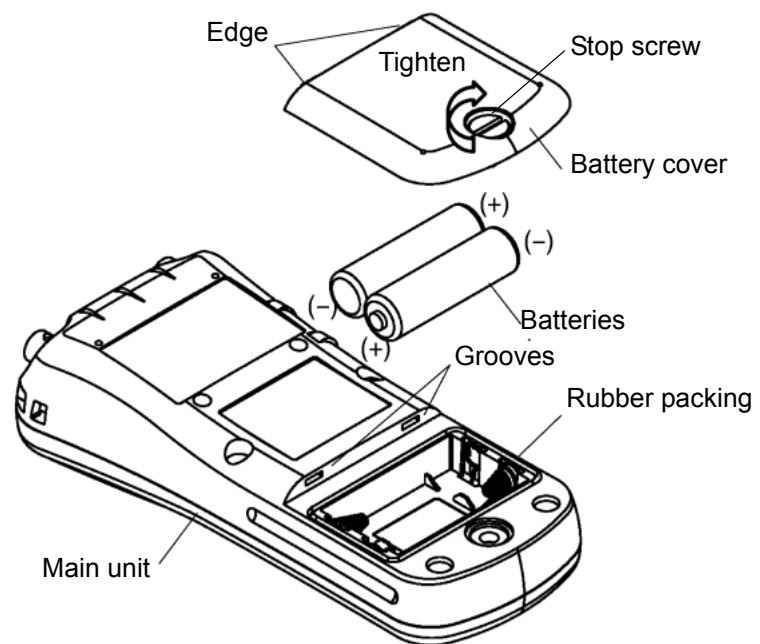
The life of the batteries included with the meter may be short because the batteries were used for the operation check before shipping.

---

### To insert/replace the batteries

1. Loosen the screw of the battery cover by using a coin or screwdriver, etc. The cover is constructed so that the stop screw cannot be completely removed and lost.
2. Pull up the screw, and remove the battery cover by sliding it out.

3. If there are old batteries inside, remove them.
4. Place the new batteries in the meter, verifying the orientation of the poles (“+” and “-”).
5. Check that the rubber packing is not twisted and no foreign matter is stuck to it.
6. Insert the edge of the battery cover into the grooves on the meter, and then tighten the stop screw.



**Note**

Check that the rubber packing is twisted and no foreign matter is stuck to it. Otherwise the meter may no longer be waterproof.

**Battery life**

The table below shows the battery life of alkaline batteries during continuous use. The life of manganese batteries is about a half of the alkaline batteries.

Model	Battery life
D-52, 53, 55	approx. 200 hours
D-54	approx. 100 hours

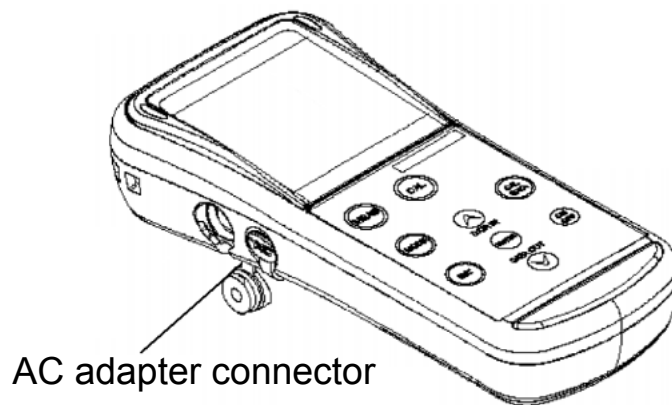
## 1.8 Connecting the AC adapter

---

When using the meter with an AC power supply, use the designated AC adapter (option).

AC adapter specifications

Supply voltage range	100 - 200 V AC
Frequency range	50/60 Hz
Current rating	Max 370 mA
Class2 Power supply	
Equipment protected by double insulation	
Indoor use only	
Supply voltage fluctuations allowed up to $\pm 10\%$	



**Note**

When the AC adapter is connected, the meter is no longer waterproof.

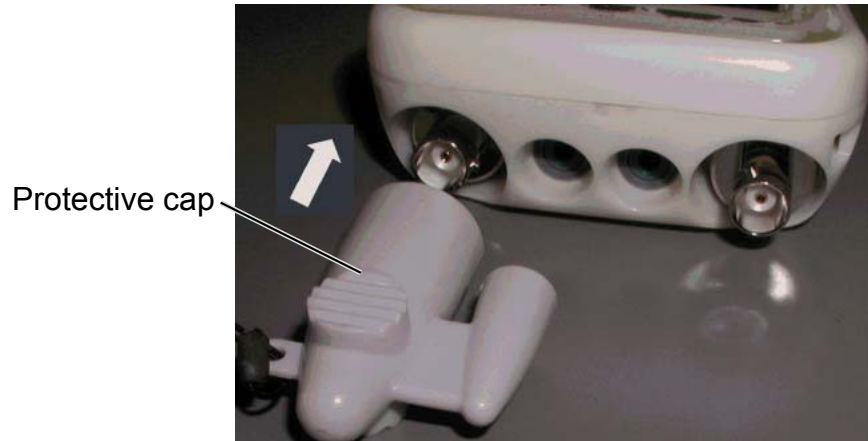
Be careful not to let water get into the meter.

---

## 1.9 Using the protective cap (D-53/54/55)

---

For meters having two electrode connector channels, be sure to use the protective cap when using only one channel, in order to protect the unused connector



## **1 Overview of the Meter**

### **1.9 Using the protective cap (D-53/54/55)**

# 2 Taking Measurements

This chapter explains how to take basic measurements.

## 2.1 Turning the meter ON/OFF

---

Pressing the ON/OFF key turns the power on/off. The ON/OFF key functions when it is pressed continuously for about one second to protect against accidental operation.

## 2.2 Settings required before measurement

---

The built-in clock allows you to record the date of calibration and data memory storage. When using the meter for the first time, be sure to set this clock.

— Ref. —  
“3.3 Displaying and setting the clock” page 72

---

## 2.3 Measurement modes

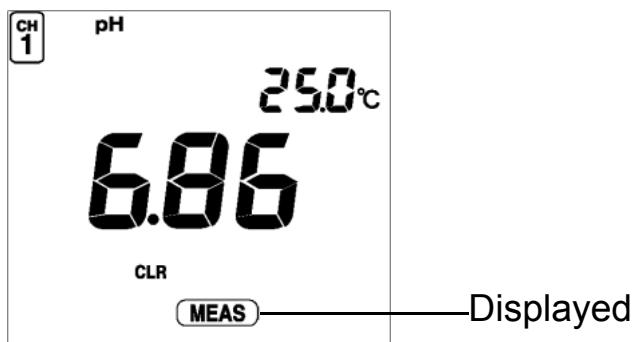
---

The D-50 Series of pH meters have an Instantaneous Value Measurement mode and an Auto Hold Measurement mode for all components of the solution being measured.

### Instantaneous Value Measurement mode

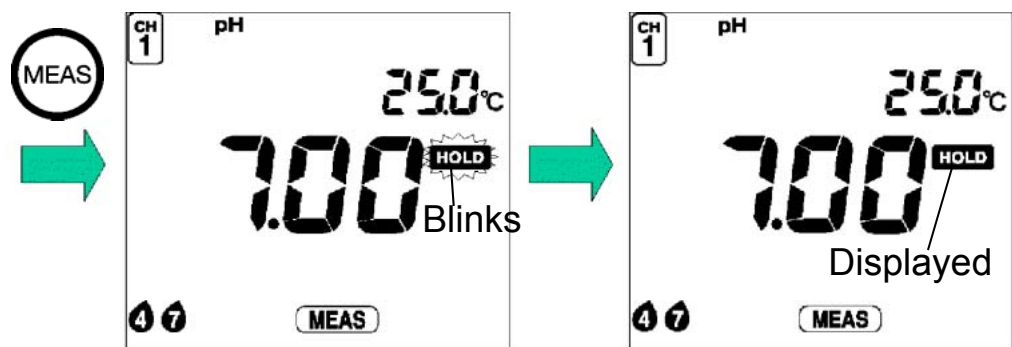
The D-50 Series of pH meters perform instantaneous value measurement as the default measurement mode when the power is first turned ON and when the auto hold measurement is cancelled or cleared.

For this reason, the screen displayed when the meter is in the Instantaneous Value Measurement mode is called the "initial screen" in this manual.



## Auto Hold Measurement mode

Auto Hold Measurement mode maintains the display of the value measured when the meter automatically judges that the measured value has stabilized. Press the MEAS key with the initial screen displayed to make “ HOLD ” blink on the display. When the measured value becomes stable, “ HOLD ” will stop blinking and remain displayed, and the measured value will remain displayed. To clear the hold status or “ stabilized ” value (when “ HOLD ” is blinking), press the MEAS key.



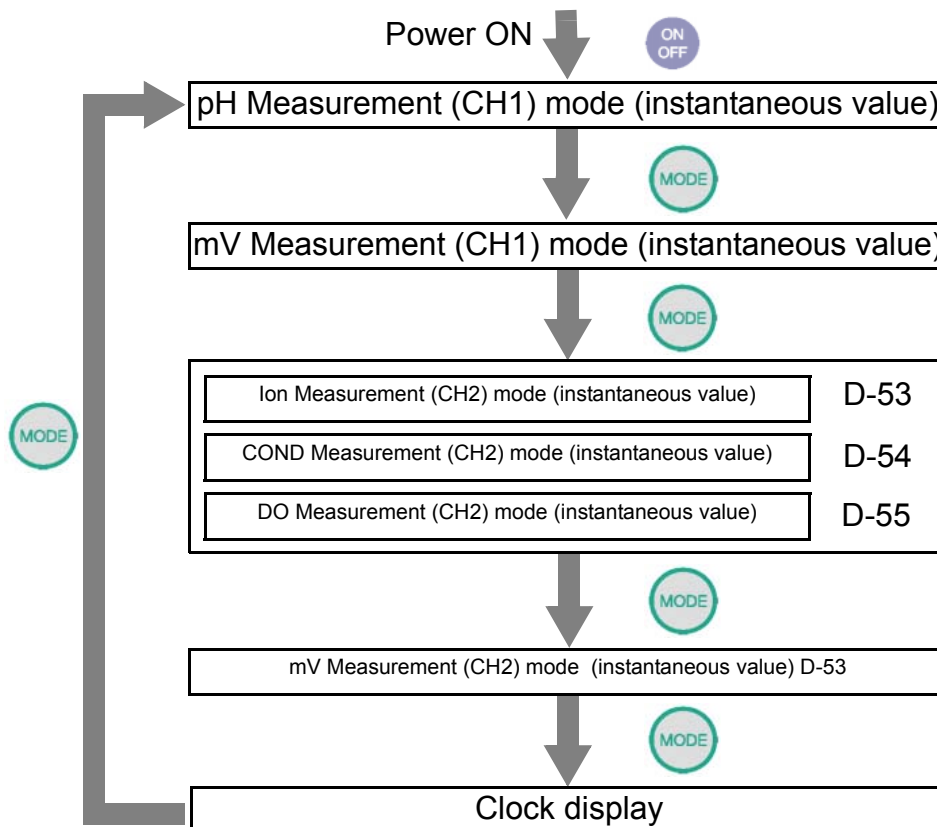
### Criteria for judging stability

pH, ORP, ION measurement	: Within $\pm 1$ mV variance in potential after 10 seconds
Conductivity measurement	: Within $\pm 3$ -digit variance after 10 seconds
DO measurement	: Within $\pm 3$ -digit variance after 10 seconds
Temperature measurement	: Within $\pm 2^\circ\text{C}$ variance after 10 seconds



## 2.4 Selecting the measurement modes

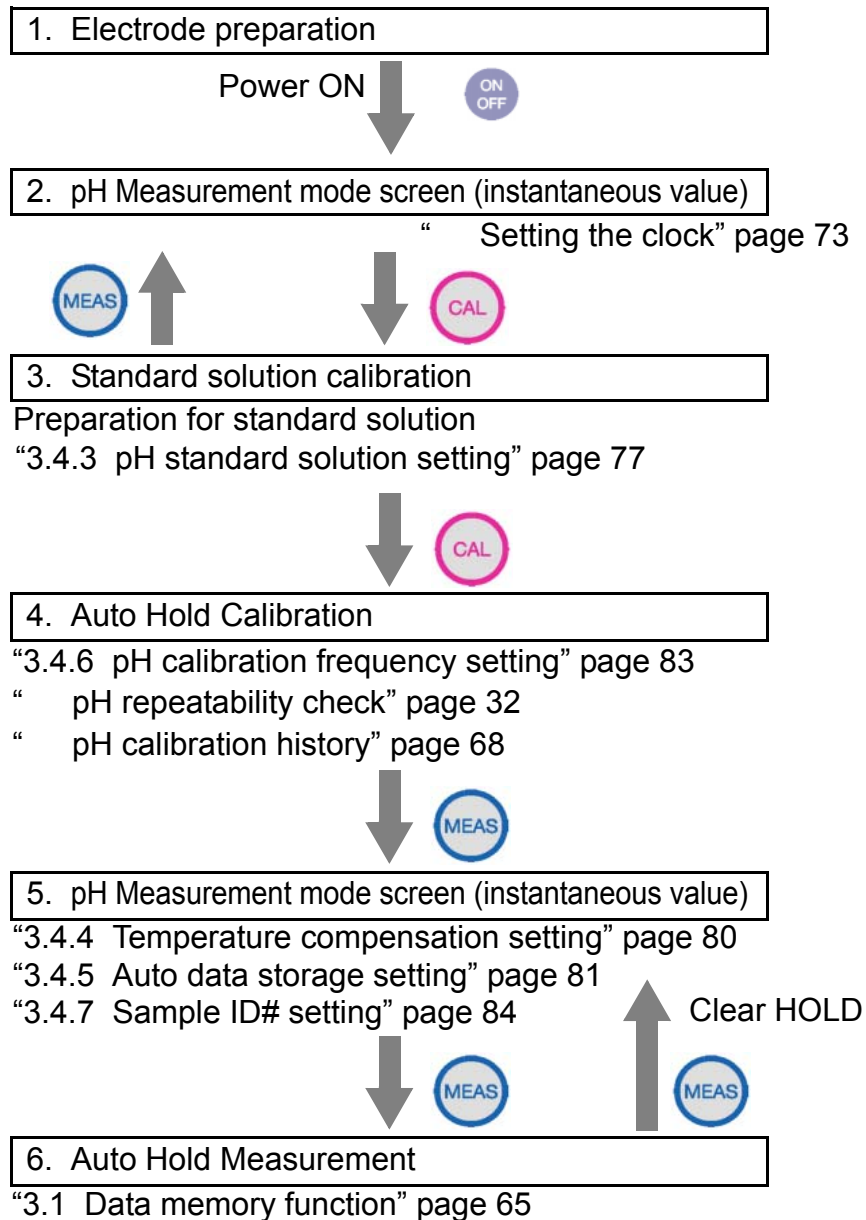
Pressing the MODE key changes the measurement mode. The last measurement mode item is the clock display. Pressing the MODE key once more returns the display to the first measurement mode.



## 2.5 Measuring pH

The following shows the operational flow for pH measurement.

### Measuring pH: basic operational flow



## Electrode preparation

Refer to the electrode instruction manual and make sure you have the necessary electrode(s).

Plastic-body pH electrode: 9621-10D

Glass-body pH electrode: 9611-10D

pH (micro) electrode: 9669-10D

pH (sleeve) electrode: 9677-10D

---

### Chemical solution



The liquid inside the electrode is highly concentrated potassium chloride (3.33 mol/L KCl). If the internal solution in the electrode comes in contact with your hands or skin, wash immediately with water. If the internal solution comes in contact with your eyes, flush immediately with large amounts of water and seek treatment by a physician.

---

### Glass fragments

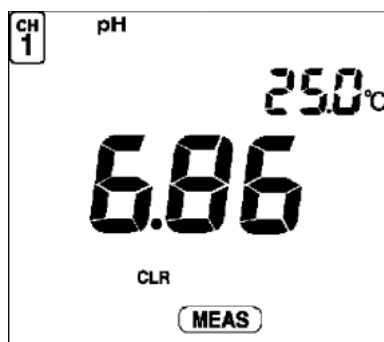


Glass fragments can cause injury. The outer tube of the electrode and the tip of the electrode are made of glass. Use care not to break them.

---

## Entering the pH Measurement mode

1. Press the ON/OFF key.  
The initial screen will appear.



## Standard solution calibration

Perform a one-point calibration for making simple pH measurements; for more accurate measurements, perform at least a two-point calibration.

---

### Note

Up to three points can be used for calibration. If you perform calibration for a fourth point, “ERR06 Calibration point error” is displayed.

---

Standard solutions for calibration are defaulted to pH 2, pH 4, pH 7, pH 9, and pH 12.

---

### Ref.

“3.4.3 pH standard solution setting” page 77

---

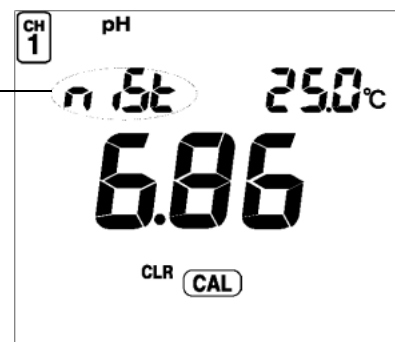
This section will explain how to conduct a two-point calibration using pH 7 and pH 4 standard solutions.

## Calibration procedure

1. Press the CAL key while in the pH Measurement mode.

The meter enters the Calibration mode and >CAL< is displayed.

Displayed item differs depending on the standard solution setting.



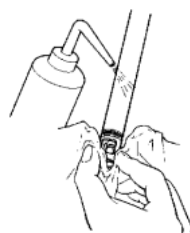
---

### Note

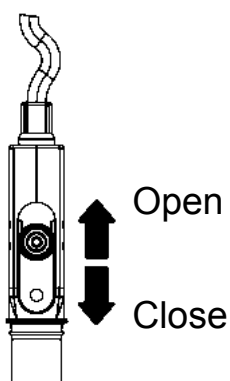
The mode cannot be changed during Auto Hold calibration (while “ HOLD ” is blinking or continually displayed).

---

2. Wash the tip of the electrode well with pure (de-ionized) water, and then wipe with filter paper or tissue paper.

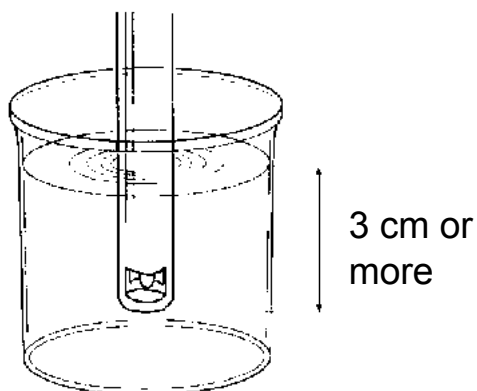


3. Open the internal solution filler port.  
Leave the port open while calibration is taking place.

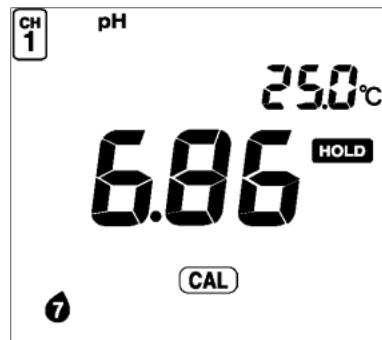


### Calibration at first point

1. Immerse the tip of the electrode in a beaker containing pH 7 standard solution.  
Immerse the pH electrode in the sample at least three centimeters.



2. Press the CAL key to start calibration.



The measured value will be displayed, and “ HOLD ” will blink until the reading stabilizes.

When the value stabilizes, “ HOLD ” will stop blinking and the calibrated value will be displayed.

The 7 bottle mark will be displayed, indicating that calibration was conducted with pH7 standard solution

---

**Note**

**To stop the calibration:**

Press the CAL key while the HOLD mark is blinking.

**To establish the calibration:**

Press the ENTER key while the HOLD mark is blinking.

**To redo the calibration:**

Press the CAL key after the HOLD mark is displayed.

---

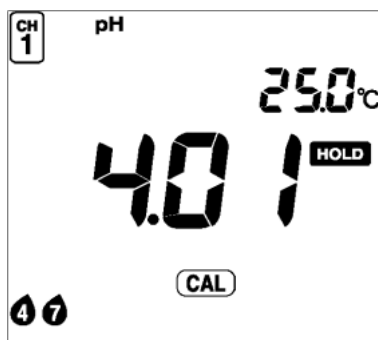
### Calibration at second point

1. Wash the electrode well again with pure (de-ionized) water, and then wipe with filter paper or tissue paper.
2. Immerse the tip of the electrode in a beaker containing pH 4 standard solution.
3. Press the CAL key to start calibration.

The measured value will be displayed, and “ HOLD ” will blink until the reading stabilizes.

When the value stabilizes, “ HOLD ” will stop blinking and the calibrated value will be displayed.

The 4 bottle mark will be displayed, indicating that calibration was conducted with pH 4 standard solution.



4. Press the MEAS key to return to the pH Measurement screen.

---

#### Note

While calibrations are being performed in the Calibration mode, redoing a calibration only updates the calibration data for the pertinent standard solution. If a calibration is redone after the meter is returned to the Measurement mode, however, the calibration is conducted on the initial status of the meter; i.e., all the previous calibration data is cleared.




---

**Note**

The example of calibration at second point has explained the calibration process using the order from pH 7 to pH 4. However, the calibration order of the standard solutions can be arbitrarily chosen.

**Electrode status**

You can check the status of the electrode after calibration.

Item	Description
 ,ERR Not displayed	The electrode is in good condition. Electrode sensitivity is from 93% to 100%.
 Blinking	Electrode sensitivity has dropped to the level of 90% to 93%. <ul style="list-style-type: none"> <li>• Make sure that you are using the right standard solution.</li> <li>• Clean the electrode.</li> </ul> “ Washing the electrodes” page 142
 Displayed	Electrode sensitivity has dropped to the level of 85% to 90%. “ ERR No.05 Electrode sensitivity error (pH)” page 160
ERR No.04	Asymmetrical potential error “ ERR No.04 Asymmetric potential error” page 159
ERR No.05	Sensitivity error “ ERR No.05 Electrode sensitivity error (pH)” page 160



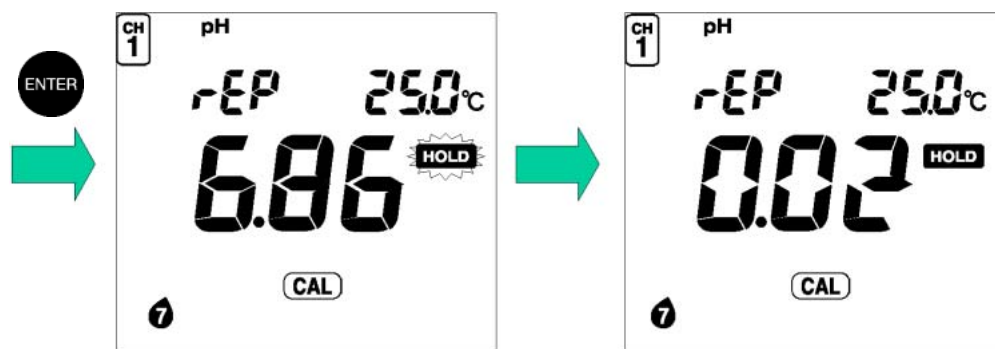
## pH repeatability check

The repeatability of the calibration can be checked if the calibration has been performed with pH 7 standard solution of NIST or US.

The repeatability check is operable only once after calibration.

1. After calibration and while still in the Calibration mode, immerse the electrode in pH 7 standard solution and press the ENTER key.

The difference between the calibrated value and measured value is displayed.



### Note

There is no problem in measurement accuracy if the difference is within  $\pm 0.05$  pH.

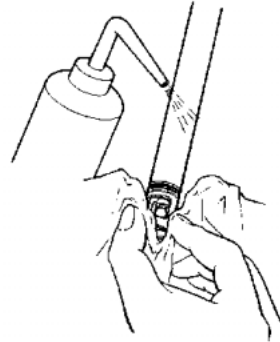
## Clearing calibrated values

To clear all the calibrated values:

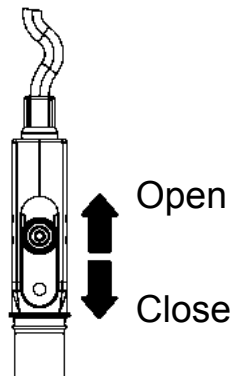
1. Set the pH meter to the Calibration mode.
2. Press the CAL key while holding the SET key down.

## Measuring pH

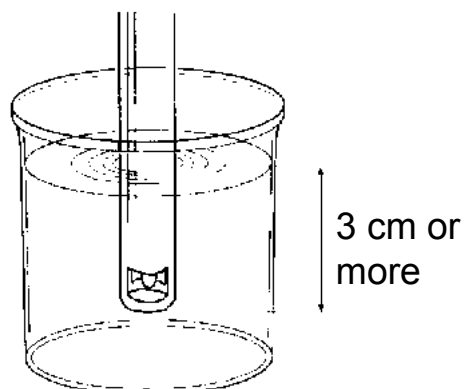
1. Wash the tip of electrode well with pure (de-ionized) water, and then wipe with filter paper or tissue paper.



2. Open the internal solution filler port.  
Leave the port open while measurement is taking place.



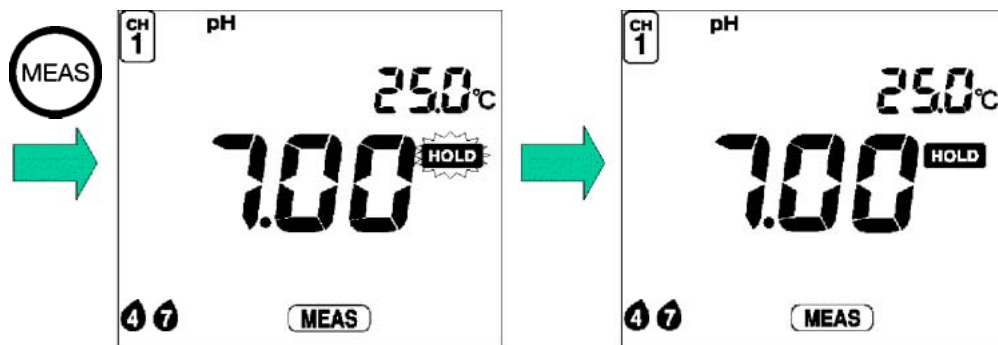
3. Immerse the electrode all the way in the sample.  
Immerse the pH electrode in the sample at least three centimeters.



4. Press the MEAS key with the initial screen displayed.

“ HOLD ” will blink until the reading stabilizes.

When the indicated value stabilizes, “ HOLD ” will stop blinking and will be displayed. The indicated value will remain displayed continually.



---

**Ref.**

Refer to the “ Criteria for judging stability” page 23 for the criteria for judging the stability of the readout.

---

---

**Note**

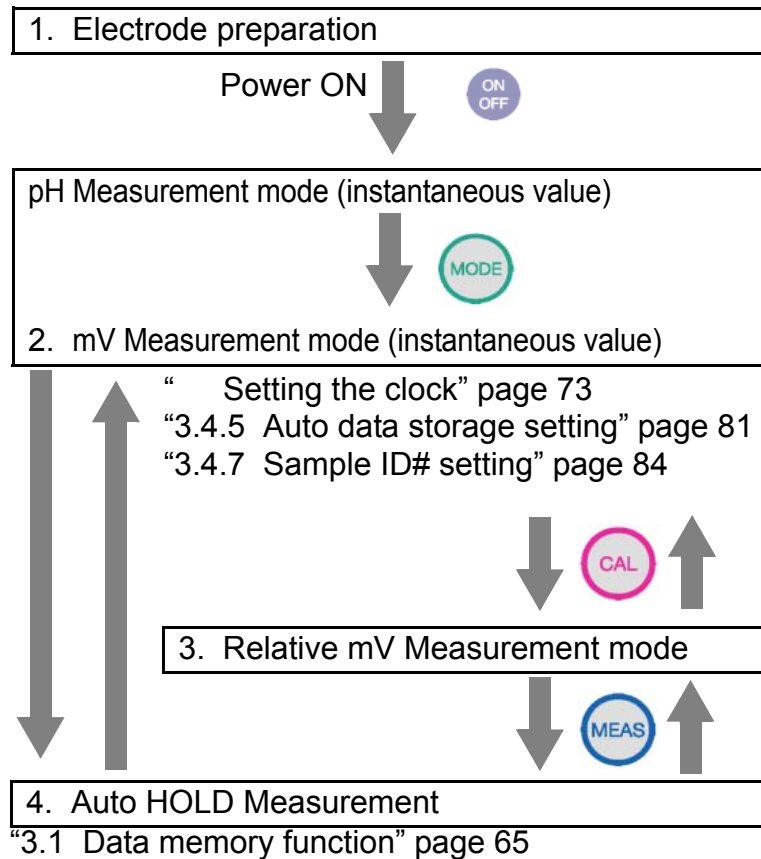
When measurement data is held using Instantaneous Value Measurement or Auto Hold Measurement, you can store that data in the memory by pressing the key. See “3.1 Data memory function” page 65.

---

## 2.6 Measuring ORP

The following shows the operational flow for ORP measurement.

### ORP measurement operational flow



### Electrode preparation

To measure the ORP (oxidation-reduction potential) of a solution, use a platinum electrode especially designed for that purpose.

**Note**

mV measurement with the pH electrode shows the potential of the electrode. This measurement is useful for checking samples and the performance of the electrode.

Refer to the electrode instruction manual and make sure you have the correct electrode.

## Measuring ORP

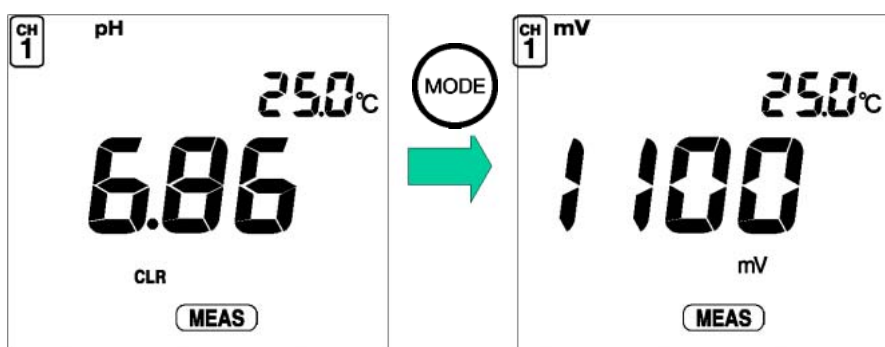
1. Immerse the electrode all the way in the sample solution.

**Note**

For accurate measurements, be sure to immerse the electrode in the sample at least three centimeters.

2. Press the MODE key, once.

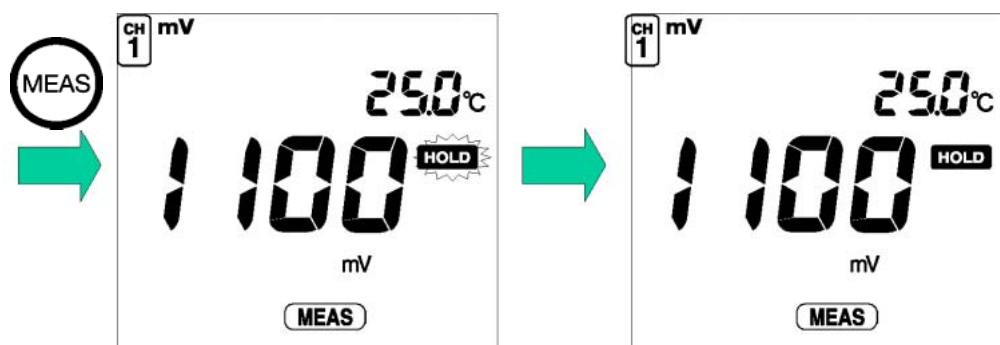
The ORP Instantaneous Value Measurement screen will appear.



3. Press the MEAS key with the initial screen displayed.

"HOLD" will blink on the display until the reading stabilizes.

When the value stabilizes, "HOLD" will stop blinking and will be displayed continually. The indicated value will remain displayed, and ORP measurement is completed.



**Ref.**

Refer to the "Criteria for judging stability" page 23 for the criteria for judging the stability of the readout.

---

**Note**

If the data is to be saved to the memory, press the key. See “3.1 Data memory function” page 65.

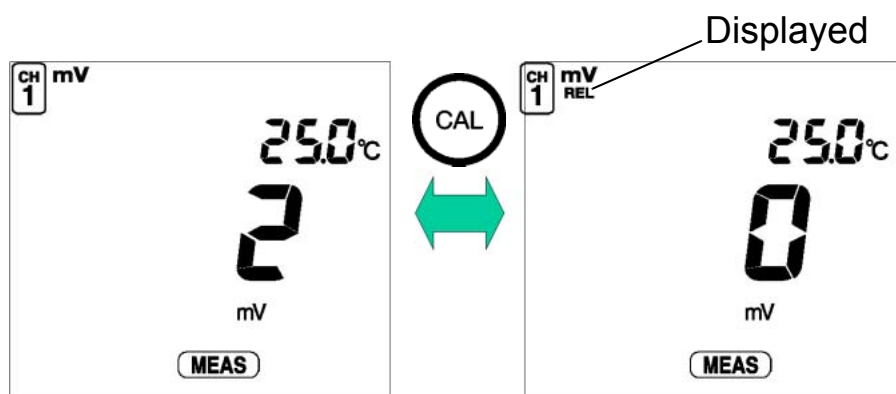
---

## Measuring relative mV

This meter can measure relative potential difference by shifting the measured potential to zero. (A potential without compensation is called absolute mV.)

1. Press the CAL key in the mV Instantaneous Value Measurement mode.

REL is displayed under mV and the current reading value becomes the offset potential used for compensation, and the meter will display the relative mV instantaneous value.



2. Press the CAL key again.

The meter returns to the absolute mV display.

---

**Note**

Potential compensation during relative mV measurement does not affect the displayed pH value.

---

---

**Ref.**

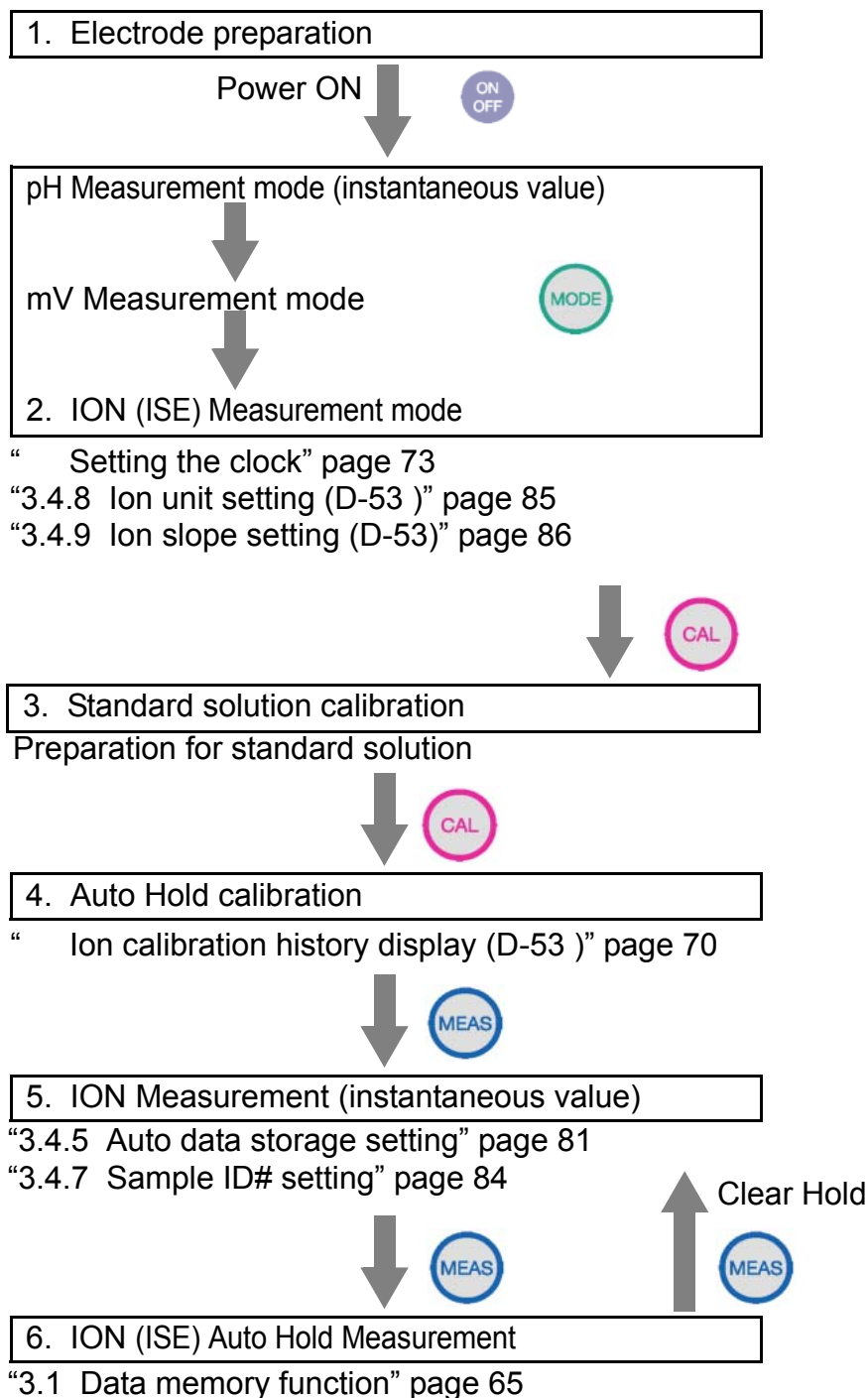
For how to check the status of the ORP electrode, refer to “ ORP standard solution” page 183.

---

## 2.7 Ion measurement (D-53)

The following shows the operational flow for ION measurement.

### Ion measurement operational flow





## Electrode preparation

Refer to the electrode instruction manual and make sure you have the correct electrode.



---

### Chemical solution

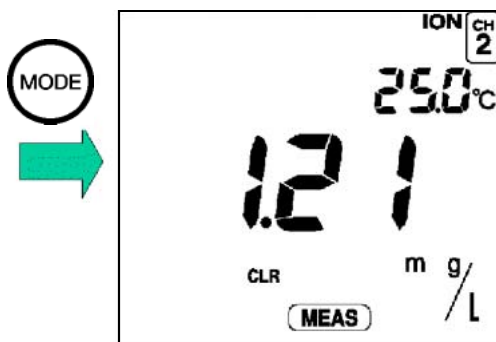
Toxic substances may be used in some ION electrodes. Use caution when handling them. If the internal solution in the electrode comes in contact with your hands or skin, wash immediately with water. If the internal solution comes in contact with your eyes, flush immediately with large amounts of water and seek treatment by a physician.

---

## Entering the ION Measurement mode

1. Press the MODE key in the pH Instantaneous Value Measurement mode to enter the ION Measurement mode.

The ION Instantaneous Value Measurement screen will appear.



## Standard solution calibration

Calibrate the pH meter using a standard solution with a known concentration.

---

**Note**

### Selecting the ions to be measured

The ION to be measured is set using the load count (charge quantity).

The ION slope is set at +1 as the default setting.

Refer to “3.4.9 Ion slope setting (D-53)” page 86

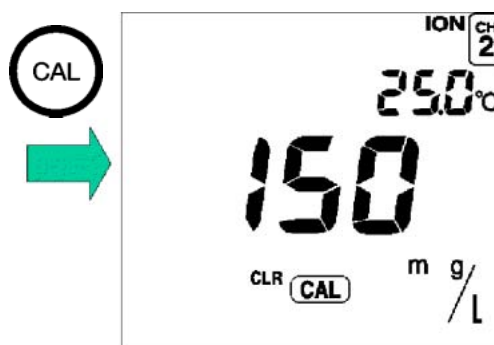
### Units

Units are set at g/L as the default setting. To change the units to mol/L, refer to “3.4.8 Ion unit setting (D-53 )” page 85.

---

## Calibration at first point

1. Press the CAL key while in the ION Instantaneous Value Measurement mode, to select the Calibration mode.



2. Wash the electrode well with pure (de-ionized) water, and then wipe with filter paper or tissue paper.

---

**Note**

Do not touch or scratch the responsive membrane on the ION electrode.

---



3. Place the tip of the electrode in the standard solution beaker.

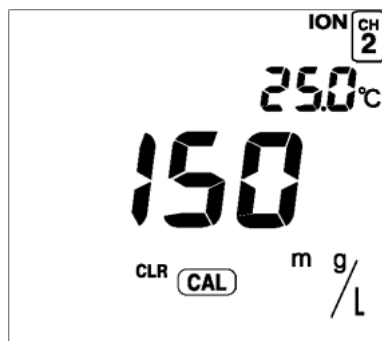
**Ref.**

Refer to the electrode instruction manual for how to adjust the standard solution.

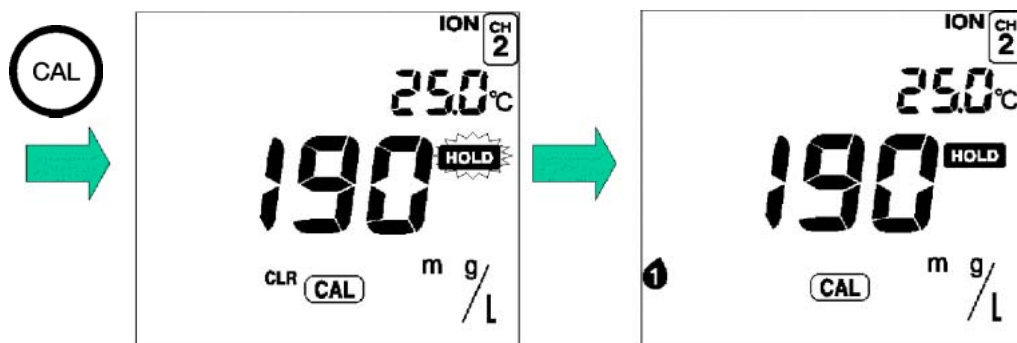
**Note**

Mix the standard solution at a constant speed (300 – 500 rpm), using a magnetic stirrer. Measure the standard solution and the sample that is to be measured while they are at as close to the same temperature as possible.

4. Set the standard solution value by using the  or  key to move the value up or down. (The decimal point can be moved by using the ENTER key.)



5. Press the CAL key to start calibration. The measured value will be displayed, and " HOLD " will blink until the reading stabilizes. When the measured value stabilizes, " HOLD " will stop blinking and the calibrated value will be displayed. A ① will appear, indicating that the meter has been calibrated.



Ref.

---

### While “HOLD” is blinking

To cancel calibration: Clear the hold by pressing the CAL key, again.

To fix the calibration value: Fix the value using the ENTER key.

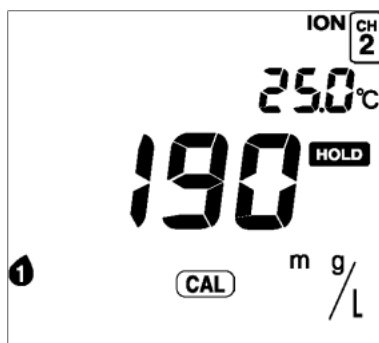
---

### Calibrations using two or three points

To conduct calibration using two or three points, clear the “HOLD” display using the CAL key, prepare a standard solution, and repeat steps 3 through 5.

Calibration can be performed using a maximum of three points.

The number of calibration points is displayed in the lower left of the display, as shown below.



1. When all calibration operations have been completed, press the MEAS key to return to the ION Measurement screen.

Note

---

Do not return any used standard solution to the original container. Discard it.

---

Note

---

While calibration is being performed in the calibration mode, redoing calibration for a standard solution updates the calibrated values for the standard solution only.

If calibration is redone after returning to the measurement mode, however, the calibration will be performed in the initial state of the meter, resulting in the clearing of all the previous calibration data.

---

**2 Taking Measurements**  
**2.7 Ion measurement (D-53)**

— **Ref.** —

---

To clear calibrated values, refer to “ Clearing calibrated values” page 32.

---

## Ion measurement

1. Wash the tip of electrode well with pure (de-ionized) water, and then wipe with filter paper or tissue paper.

**Note**

Do not touch or scratch the responsive membrane on the ION electrode.

2. Immerse the electrode in the sample to a sufficient depth (at least 3 cm).

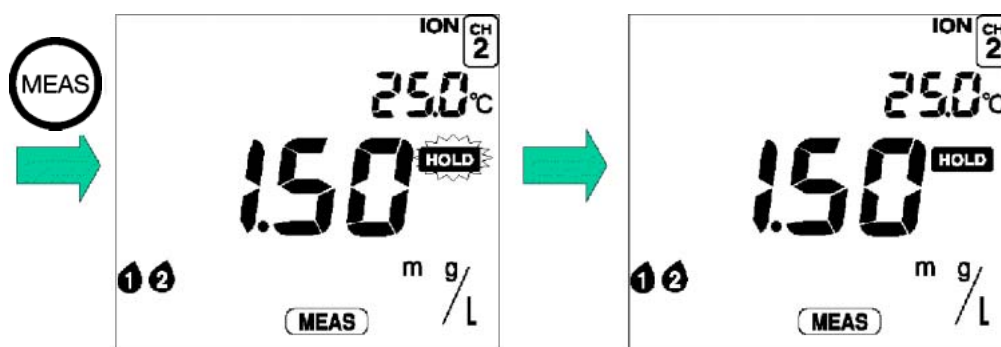
**Note**

Mix the standard solution at a constant speed (300 – 500 rpm), using a magnetic stirrer. Measure the standard solution and the sample that is to be measured while they are at close to the same temperature as possible.

3. Press the MEAS key with the initial screen displayed.

"HOLD" will blink on the display until the reading stabilizes.

When the value stabilizes, "HOLD" will stop blinking and will be displayed continually. The indicated value will remain displayed.




**Ref.**

Refer to the “Criteria for judging stability” page 23 for the criteria for judging the stability of a readout.

---

**Note**

When the meter is in the Instantaneous Value Measurement mode or the measurement value is on HOLD in the Auto Hold Measurement mode, you can store the measurement data by pressing the  key. See “3.1 Data memory function” page 65.

---

---

**Note**

The input voltage range at which measurement is possible using the meter is  $\pm 800$  mV. If measurements do not work out satisfactorily, check the voltage during mV measurement. Also, some samples are not conducive to good measurement.

---

## Measuring technique for increased accuracy

ION electrodes can be used to take a simple measurement of ION concentration. For more accurate measurement, however, certain techniques are required. Refer to the electrode instruction manual or the procedures explained below for more information.

### Adding ionic strength conditioner to sample

One source of measurement error is the influence of ionic strength. Adjusting the ionic strength by adding chemicals to the sample and standard solution for the corresponding ION electrodes will result in accurate measurements.

### pH effect of sample

The possible pH measurement range for each electrode is determined by the type and construction of the ION electrode. Check the pH value of each sample to determine whether or not it is within the measurable range. If the pH level is outside the measurable range, modify the solution using chemicals containing ions other than the ones being measured or ones that may interfere with the measurement.

### Additives and pH range

ION electrode	Additives (per liter)	pH range
Potassium $K^+$	5.9 g/L sodium chloride (NaCl)	pH 5 – 11 (Ideal is near neutral)
Calcium $Ca^{2+}$	7.5 g/L potassium chloride (KCl)	pH 5 – 11 (Ideal is near neutral)
Chloride $Cl^-$	10 g/L potassium sulfate ( $KNO_3$ )	pH 3 – 11 (Ideal is near neutral)
Fluoride $F^-$	10 g/L potassium sulfate ( $KNO_3$ )	pH 4 – 10
Nitrate $NO_3^-$	No additives	pH 3 – 7
Ammonia $NH_3$	4 g/L sodium hydroxide (NaOH)	pH 12 or higher

#### Sample measuring environment

A potential slope measured using an ION electrode follows Nernst's equation (see page 186) and is affected by the solution being measured. Also, if the solution is not mixed well enough, the response becomes slow, rendering it impossible to measure low concentrations and causing inconsistent measurements. Calibration with standard solution and measurement of the sample should be performed using a temperature bath and while stirring the solutions.

#### Effects of interfering ions on sample

If the sample cannot be measured properly even after taking the preventative measures described in items 1 through 3, the solution may contain interfering ions.



### Effects of interfering ions

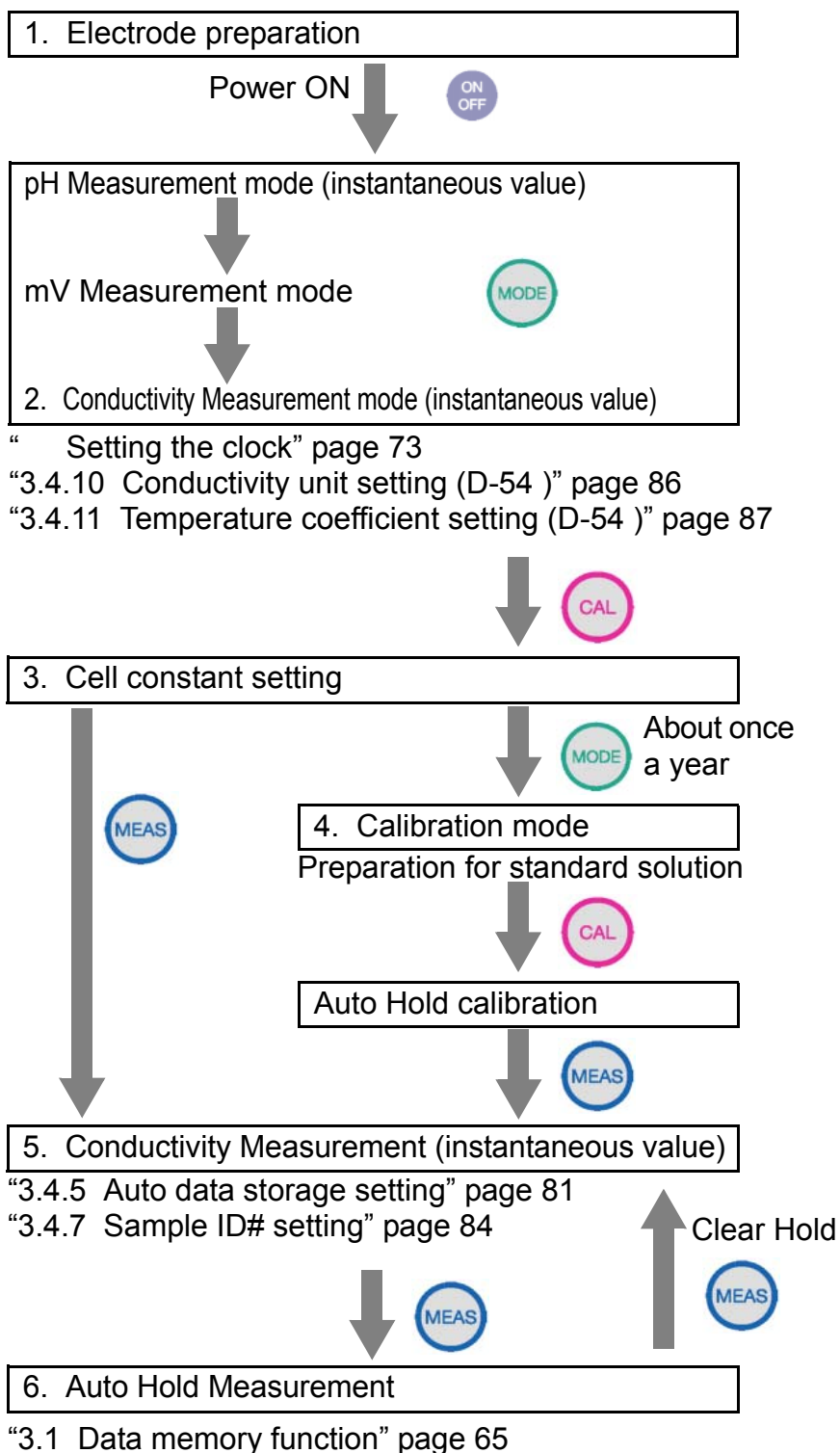
ION electrode	Compatible tolerance limits
Potassium K <sup>+</sup>	Li <sup>+</sup> , Na <sup>+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup> , Sr <sup>2+</sup> , Ba <sup>2+</sup> = 1,000; NH <sub>4</sub> <sup>+</sup> = 70; Cs <sup>+</sup> = 3; Rb <sup>+</sup> = 0.4 (at 10 <sup>-4</sup> mol/L K <sup>+</sup> )
Calcium Ca <sup>2+</sup>	Na <sup>+</sup> , K <sup>+</sup> , Ba <sup>2+</sup> , NH <sub>4</sub> <sup>+</sup> , Mg <sup>2+</sup> = 1,000; Mn <sup>2+</sup> = 500; Co <sup>2+</sup> = 350; Ni <sup>4+</sup> , Cu <sup>2+</sup> = 70; Sr <sup>2+</sup> = 50; Fe <sup>2+</sup> , Zn <sup>2+</sup> = 1; Fe <sup>3+</sup> = 0.1 (at 10 <sup>-4</sup> mol/L Ca <sup>2+</sup> )
Chloride Cl <sup>-</sup>	NO <sub>3</sub> <sup>-</sup> , F <sup>-</sup> , HCO <sub>3</sub> <sup>-</sup> , SO <sub>4</sub> <sup>2-</sup> , PO <sub>4</sub> <sup>2-</sup> = 1000; SCN <sup>-</sup> = 0.3; MnO <sub>4</sub> <sup>-</sup> = 0.1; Br <sup>-</sup> = 0.03; S <sub>2</sub> O <sub>3</sub> <sup>2-</sup> , S <sup>2-</sup> , I <sup>-</sup> , Ag <sup>+</sup> , Hg <sup>2+</sup> = not possible (at 10 <sup>-3</sup> mol/L Cl <sup>-</sup> )
Fluoride F <sup>-</sup>	OH <sup>-</sup> = 10 (within measurable range)
Nitrate NO <sub>3</sub> <sup>-</sup>	SO <sub>4</sub> <sup>2-</sup> = 1000; CH <sub>3</sub> COO <sup>-</sup> = 300; F <sup>-</sup> = 200; Cl <sup>-</sup> = 40; NO <sub>2</sub> <sup>-</sup> = 3; I <sup>-</sup> = 0.1; ClO <sub>4</sub> <sup>-</sup> = 0.03; Br <sup>-</sup> = 2 (at 10 <sup>-3</sup> mol/L NO <sub>3</sub> <sup>-</sup> )
Ammonia NH <sub>3</sub>	Volatile amino (within measurable range)

Measurements cannot be made when the compatible tolerance limit multiplied by the concentration of the ions to be measured is greater than the compatible ION concentration.

## 2.8 Conductivity measurement (D-54)

The following shows the operational flow for conductivity measurement.

### Measuring conductivity: basic operational flow

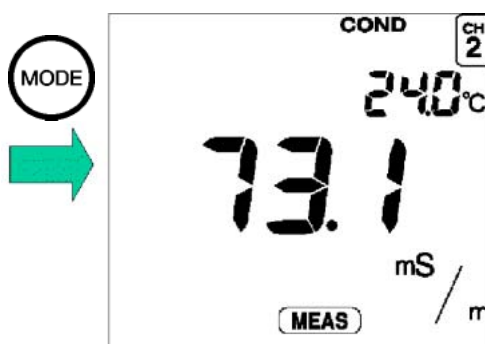


## Electrode preparation

Refer to the electrode instruction manual and make sure you have the correct electrode.

## Entering the Conductivity Measurement mode

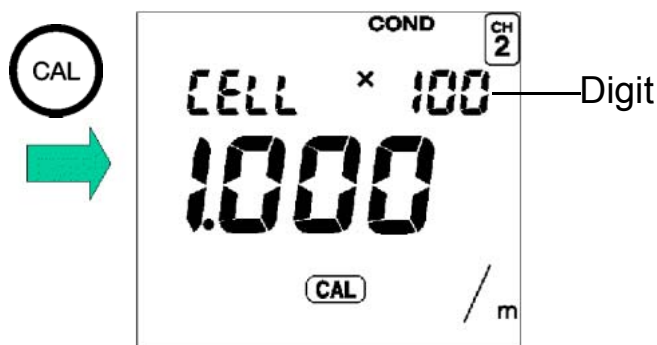
1. Remove the electrode protective cap from the electrode.
2. Immerse the electrode in pure (de-ionized) water.
3. Select the Conductivity Measurement mode when the pH Instantaneous Value Measurement screen is displayed by pressing the MODE key.  
The Conductivity Instantaneous Value Measurement screen will appear.



## CELL SET mode (Setting cell constant)

Set the cell constant the first time an electrode is connected to the main unit of the meter.

1. To enter the CELL SET mode, press the CAL key while in the Measurement mode.

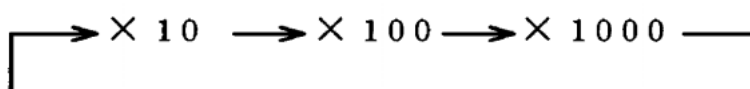


2. Change the digit number using the ENTER key.
3. Press the  $\leftarrow$  and  $\rightarrow$  keys to set the cell constant written on the electrode label.

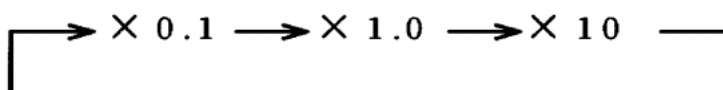
Setting range: 0.700 – 1.300

To change the coefficient, use the following procedure.

When the SI unit system ( $m^{-1}$ ) is set:



When the former unit system ( $cm^{-1}$ ) is set:



### Note

#### Temperature coefficient

The default value of the temperature coefficient is set at 2.00%/°C.

To change this setting, refer to “3.4.11 Temperature coefficient setting (D-54 )” page 87.

#### Unit Setting

The default value of unit is S/m (SI unit system).

To change this setting to the former unit system S/cm, refer to “3.4.10 Conductivity unit setting (D-54 )” page 86.

## Calibrating the cell constant

The cell constant of the electrode changes as the electrode is used. Calibrate the cell constant once a year or so.

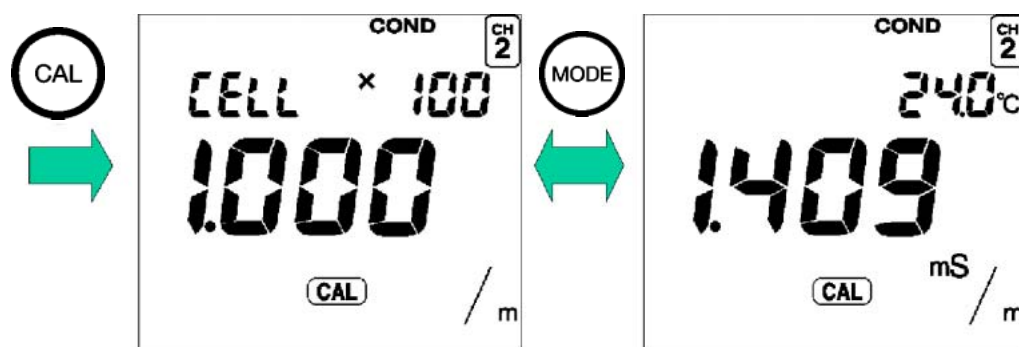
Calibrating the cell constant will update it to match the condition of the current electrode.

### Note

The cell constant is calibrated with a standard solution of potassium chloride.

To prepare a standard solution of potassium chloride, refer to “Preparing potassium chloride standard solution” page 190.

1. Immerse the electrode in the standard solution of potassium chloride.
2. Enter the Calibration mode by pressing the MODE key in the CELL SET mode.



3. Enter the value of the standard solution used for calibration in the Calibration mode using the and keys.

### Ref.

“Conductivity and temperature coefficients for various solutions” page 195

### Note

When the temperature conversion has been set to ON when setting the temperature coefficient, calibration is performed with the converted temperature.

4. Start the calibration by pressing the CAL key.  
HOLD is displayed and the calibration is completed.  
To redo the calibration, press the CAL key once more.
5. Press the MEAS key to enter the Measurement mode.

---

**Note**

If any calibration error occurs, take it as a indication that the electrode has gone bad. Replace the old electrode with a new one.

---

## Measuring conductivity

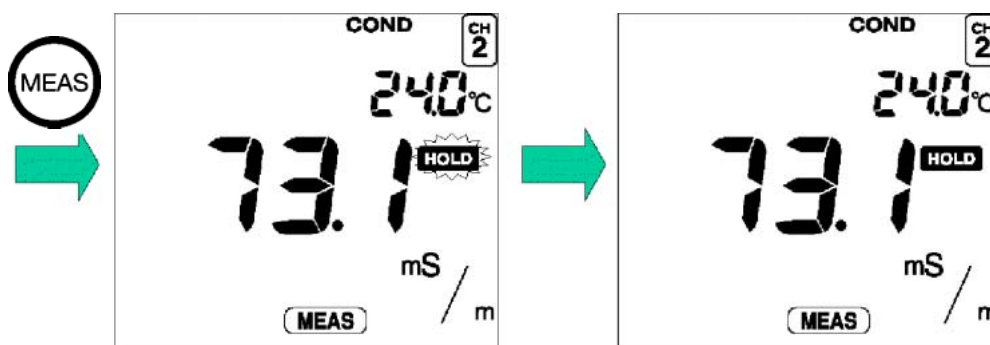
1. Immerse the electrode in the sample.

**Note**

Conductivity is greatly affected by temperature. To measure with increased accuracy, use a temperature bath to keep the solutions at a constant temperature.

2. Press the MEAS key with the initial screen displayed.

The measured value will be displayed, and “ HOLD ” will blink until the reading stabilizes. When the measured value stabilizes, “ HOLD ” will stop blinking and the measured value will remain displayed, and measurement will be completed.



**Ref.**

Refer to the “ Criteria for judging stability” page 23 for the criteria for judging the stability of a readout.

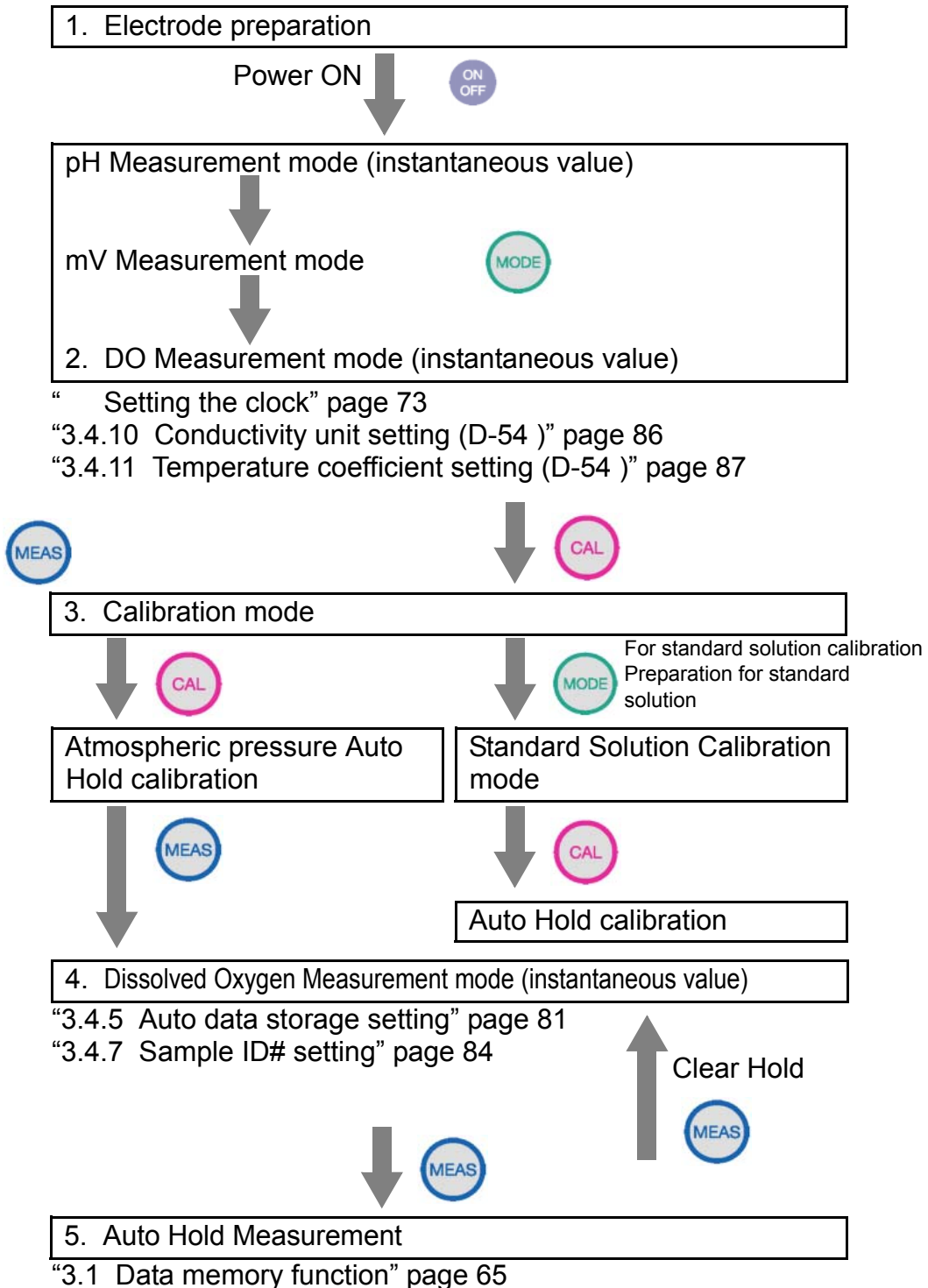
**Note**

When the meter is in the Instantaneous Value Measurement mode or the measurement value is on HOLD in the Auto Hold Measurement mode, you can store the measurement data by pressing the key. “3.1 Data memory function” page 65.

## 2.9 Dissolved oxygen (DO) measurement (D-55)

The following shows the operational flow for dissolved oxygen (DO) measurement.

### Measuring dissolved oxygen: basic operational flow





## Electrode preparation

Refer to the electrode instruction manual and make sure you have the correct electrode.



### Chemical solution

Highly concentrated potassium hydroxide (KOH) is used in the internal solution of the electrode. If the internal solution in the electrode comes in contact with your hands or skin, wash immediately with water. If the internal solution comes in contact with your eyes, flush immediately with large amounts of water and seek treatment by a physician.

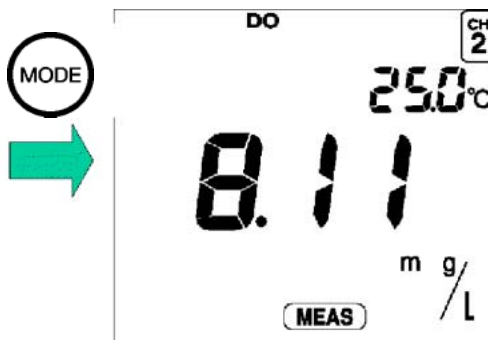
### Note

When storing the electrode with the tip removed, the tip packaging and short socket are required, so do not throw them away when unpacking the electrode.

## Entering DO Measurement mode

1. Press the MODE key while the measurement screen is displayed.

The DO Instantaneous Value Measurement screen will appear.



## Air calibration

To achieve correct measurements, the pH meter must be calibrated prior to taking measurements with it.

The D-50 Series pH meter can be calibrated using a simple one-point air calibration and, when highly precise measurement is required, using a two-point standard solution calibration. This section explains the general air calibration.

If a higher level of precision is required, refer to “Calibrating with standard solution” page 61.

### Note

For greater measurement precision, it is necessary to correct for air pressure.

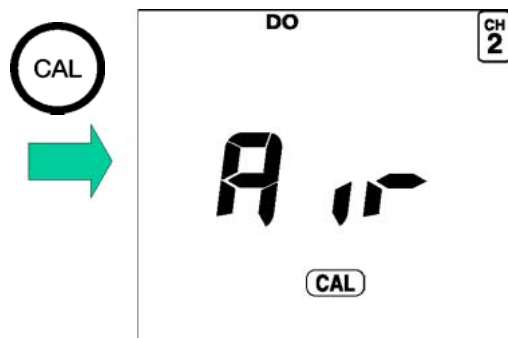
### Air-pressure correction

Air pressure is set to 1013 hPa, as the default. To change this setting, refer to “3.4.13 DO atmospheric pressure compensation setting (D-55 )” page 89.

1. Remove any liquids from the membrane at the tip of the electrode by either drying it or wiping away the liquid with soft tissue paper, making sure not to scratch the membrane.

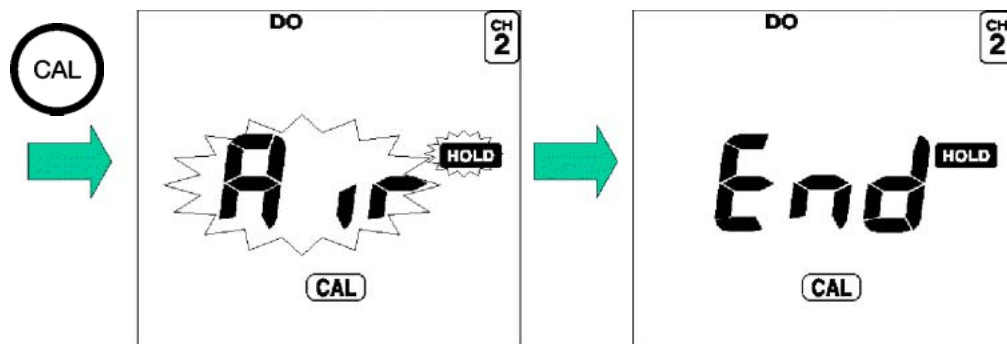


2. Press the CAL key while in the DO Instantaneous Value Measurement mode, to select the Calibration mode.



3. Press the CAL key one more time to start calibration.

The measured value will be displayed, and “HOLD” will blink until the reading stabilizes. When the measured value stabilizes, “HOLD” will stop blinking and the “End” will be displayed.



**Note**

The mode cannot be changed while measurement is taking place in Auto Hold (while “HOLD” is blinking on the display).

**Note**

**While “HOLD” is blinking**

To cancel calibration: Clear the hold by pressing the CAL key, again.

To fix the calibration value: Fix the value using the ENTER key.

4. Press the MEAS key to return to the DO MEASUREMENT screen.

---

**Note**

Calibrate using purified air.

(Errors may occur and considerable time may be required before the reading stabilizes, if calibration is conducted where there is severe fluctuation in temperature, where there is wind or rain, or close to a heater.)

Do not hold the sensor holder or electrode body with your hand, during or soon before/after calibration. The effects of body temperature will cause the reading to take more time to stabilize.

To set the calibration value to the initial (default) settings, press the CAL key while holding down the SET key in the CALIBRATION mode.

---

---

**Note**

When calibration is being performed in the calibration mode, redoing calibration for a standard solution updates the calibrated values for the standard solution only.

If calibration is redone after returning to the measurement mode, however, the calibration will be performed in the initial state of the pH meter, resulting in clearing all the previous calibration data.

---

## Measuring DO

Salinity concentration correction is set at 0.0 ppt, as the default. To change this setting, refer to “3.4.12 DO salinity compensation setting (D-55 )” page 88.

1. Immerse the electrode in the sample.

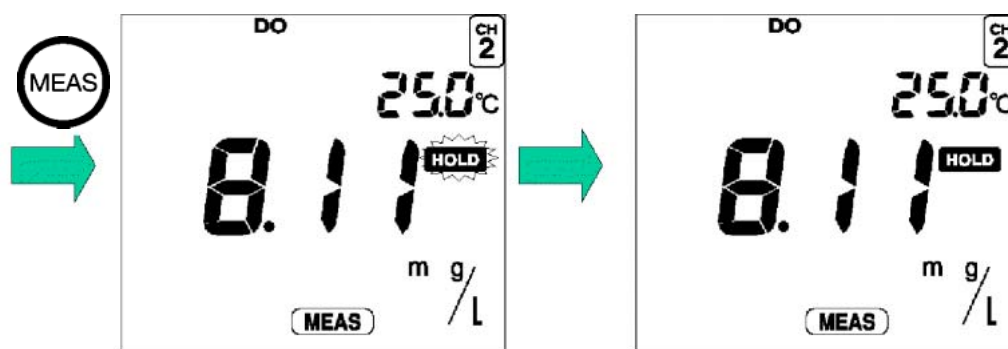
**Note**

Mix the sample at a constant speed (1000 – 1500 rpm) during measurement, using a magnetic stirrer. When the sample temperature rises due to the stirrer, use a temperature bath.

With field-use electrodes, measure at a constant flow speed (about 30 cm in 2 seconds).

2. Press the MEAS key while the Instantaneous Measurement screen is displayed.

The measured value will be displayed, and “ HOLD ” will blink until the reading stabilizes. When the measured value stabilizes, “HOLD” will stop blinking and the calibrated value will be displayed.



**Ref.**

Refer to “ Criteria for judging stability” page 23 for the criteria for judging the stability of the readout.

To store the data, press the DATA IN key. The memory number will appear and the display will automatically return to the Instantaneous Value Measurement screen.

## Calibrating with standard solution

Normally, air calibration is used to calibrate the meter when measuring DO. When a higher level of measuring precision is required, however, a two-point calibration using standard solution can be employed.

Calibration order for zero standard solution and span calibration solution is arbitrary. The meter automatically determines the standard solution.

### Preparing zero standard solution

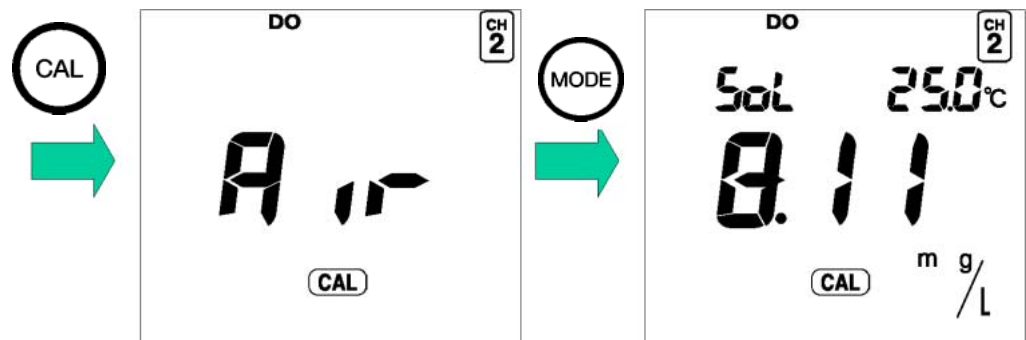
Put 50 g sodium sulfate into 1000 ml of de-ionized water and mix it until it dissolves completely.

### Preparing span standard solution

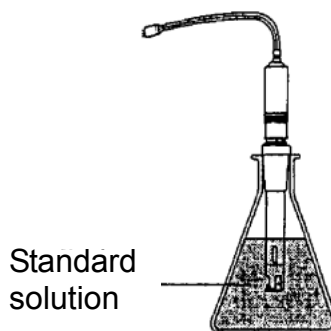
Put de-ionized water into a container, and create an oxygen-saturated state by bubbling the water with an air pump.

### Calibration procedure

1. Press the CAL key with the initial screen displayed, to select the Calibration mode.
2. Press the MODE key to display "SoL".



3. Wash the electrode with tap water, and then immerse it in the standard solution.



**Note**

Mix the sample at a constant speed (1000 – 1500 rpm) during measurement, using magnetic stirrer. When the sample temperature rises due to the stirrer, use a temperature bath.

With field-use electrodes, measure at a constant flow speed (about 30 cm in 2 seconds).

4. Press the CAL key.

“HOLD” will blink until the reading stabilizes.

**Note**

**While “HOLD” is blinking**

To cancel calibration: Clear the hold by pressing the CAL key, again.

To fix the calibration value: Fix the value using the ENTER key.

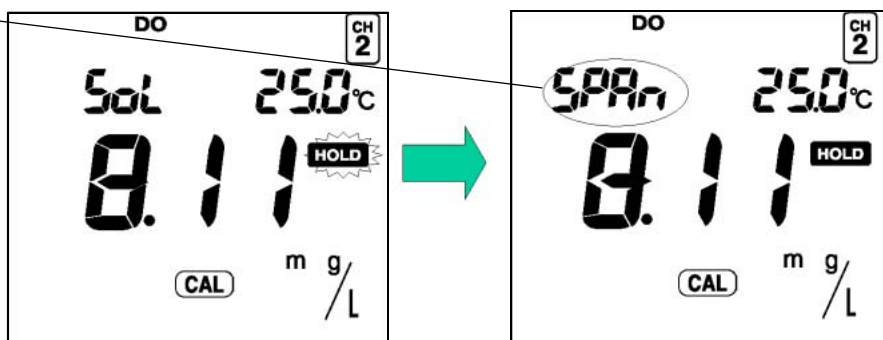
After the readout value stabilizes, the HOLD is displayed to indicate that the calibration is completed.

When the span standard solution is used:

SPAN

0

When the zero standard solution is used:



---

**Note**

Zero standard solution and span standard solution are detected automatically.

---

5. To conduct the second calibration in the two-point calibration, repeat steps 3 and 4.
6. To return to the MEASUREMENT mode, press the MEAS key.

---

**Note**

When calibration is being performed in the calibration mode, redoing calibration for a standard solution updates the calibrated values for the standard solution only.

If calibration is redone after returning to the measurement mode, however, the calibration will be performed in the initial state of the pH meter, resulting in clearing all the previous calibration data.

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**2 Taking Measurements**  
**2.9 Dissolved oxygen (DO) measurement (D-55)**

# 3 Functions

This chapter describes the various functions of the meter.

## 3.1 Data memory function

---

The measured data can be stored automatically or manually.

### Auto data memory

You can automatically store the data at certain intervals using this function. For the setting procedure, refer to “3.4.5 Auto data storage setting” page 81

### Data memory

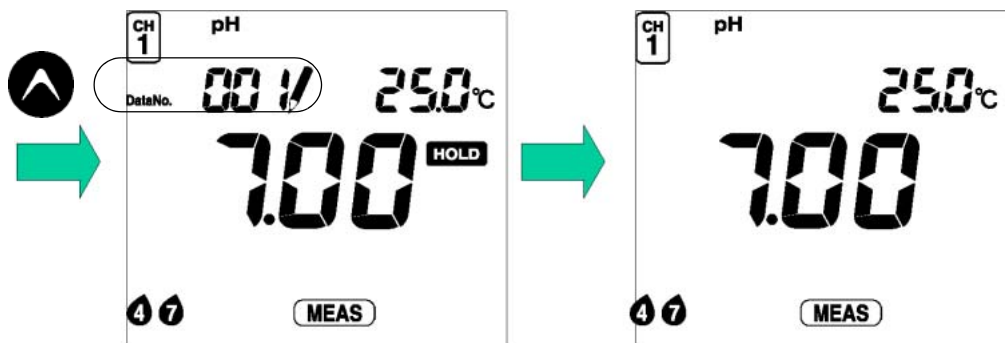
In all measurement modes, you can store data when the instantaneous value is measured or the measured value is held (HOLD status) during the Auto HOLD measurement by pressing the **key**.

The measurement reading is stored along with the temperature, data, HOLD value/instantaneous value, ATC/MTC, calibration point (only for pH and ION measurement), and sample ID at the time the measurement was taken.

After the data number is displayed, the screen returns to the initial screen. Up to 300 items of data can be stored in the memory. If the number of data items exceeds the maximum limit, ERR 10 is displayed and no more data can be stored.

### 3 Functions

#### 3.1 Data memory function




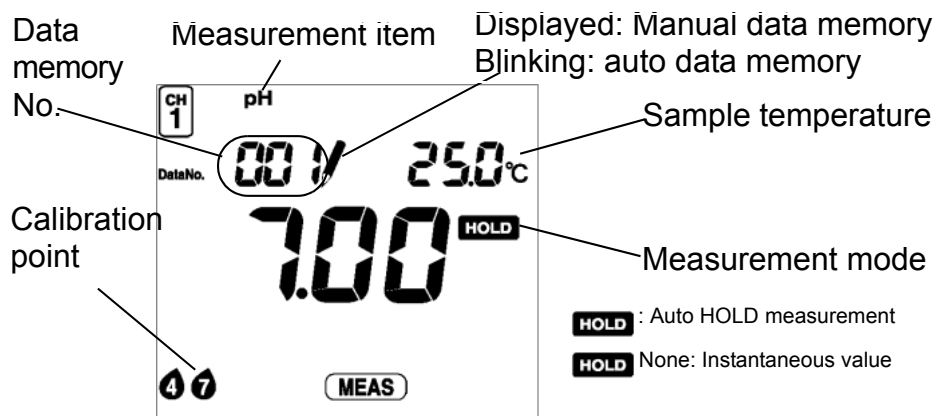
#### Note



Data cannot be stored unless the value has stabilized or in the CAL mode.

When the data is stored, an ID number for that specific measurement can be registered (see “3.4.7 Sample ID# setting” page 84).

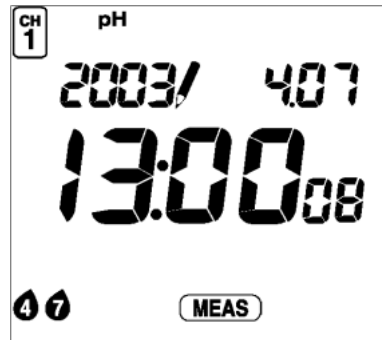
### Calling up memory data

1. Press the  key in the Measurement mode to load measurement data.



Select and load the desired memory data item using the  and  keys. The displayed number returns to 0 after 300, the maximum number.

2. Press the MODE key to display the data and time.



Select the desired data item using the and keys.

3. Press the MODE key to display the ID.



Select the desired data item using the and keys.

**Note**

If an error occurs while a data number is being displayed, the error number will NOT be displayed. When using a printer (sold separately), press the ENTER key while in the DATA OUT mode to print the data.

## 3.2 pH calibration history display

---

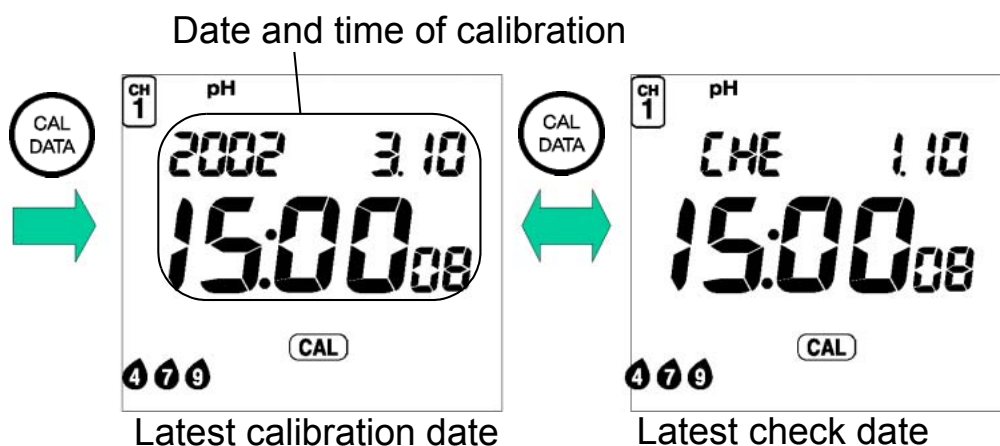
The latest calibration and repeatability check information can be checked.

— **Ref.** —  
Refer to “ pH repeatability check ” on page 32.

---

### pH calibration history

1. Press the CAL DATA key in the pH Measurement mode.



2. Pressing the CAL DATA key toggles between the latest calibration date and the latest check date.

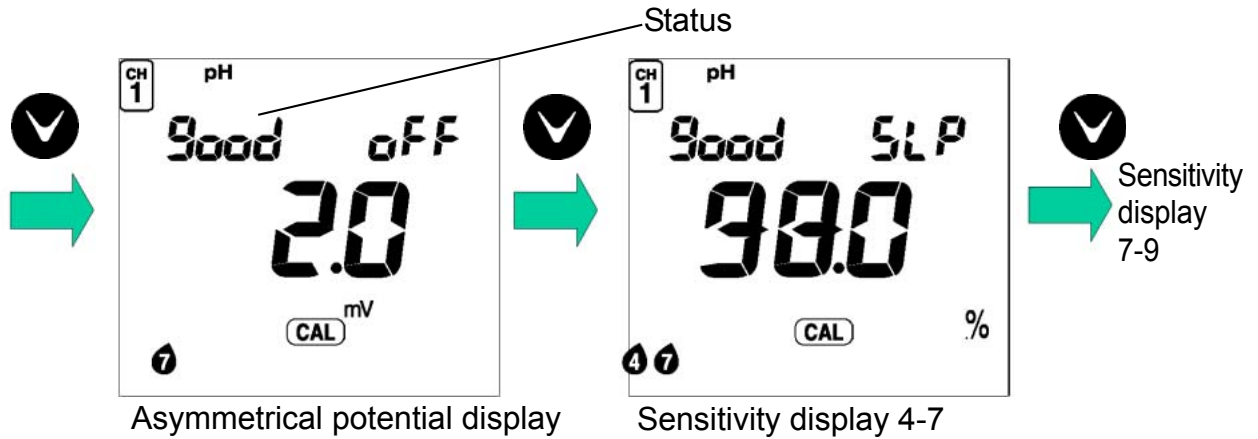
— **Note** —  
The latest check date is not displayed if no repeatability check has been performed.

---


### Latest calibration data

1. Press the  key with latest calibration date displayed.

The asymmetrical potential will be displayed.



### Example of 3-point calibration


2. Press the  key to show sensitivity display.

### Status display

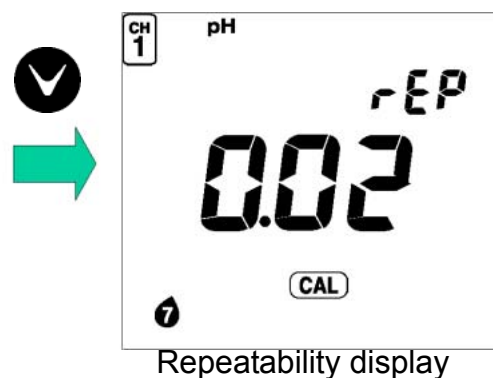
- Good** When the meter is in a good condition
- WHE** When the electrode needs washing
- WRD** When the electrode is old and is going bad

— **Ref.** —  
Refer to “ Asymmetrical potential display ” on page 175.

### pH latest check data

1. Press the  key with latest check date displayed.

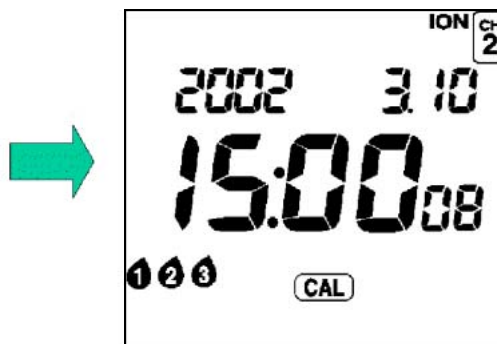
The repeatability display will appear.



### Ion calibration history display (D-53 )

1. Press the CAL DATA key in the ION Measurement mode.

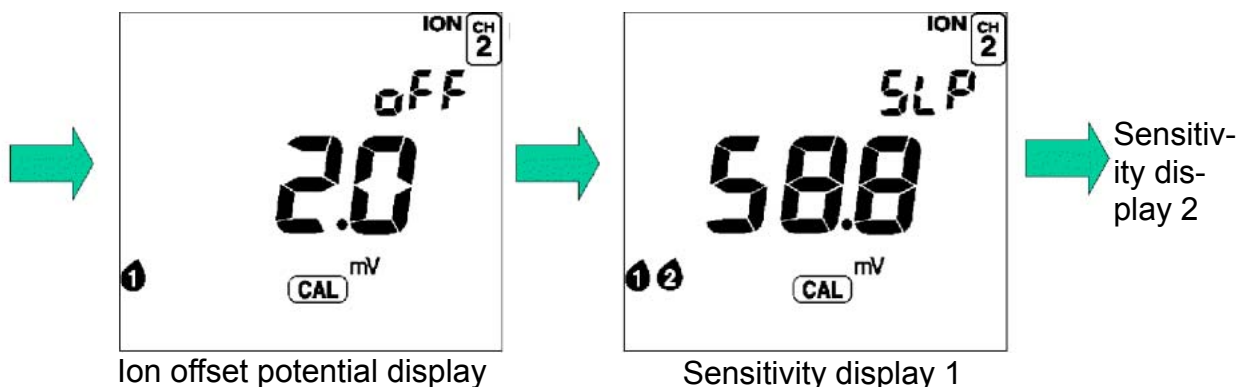
The latest ION measurement calibration date will be displayed.



Latest calibration date

2. Using the key, toggle between the latest calibration date display and the ION offset potential display, and sensitivity display(s).

latest calibration date    ION offset potential display  
sensitivity display 1    sensitivity display 2 (in the case of 3-point calibration)



**Note**

The sensitivity is shown as follows in a 3-point calibration. Note that the symbol meanings are different than those notifying the completion of calibration.

Sensitivity for ① ② :



Ion slope of +1 and +2: sensitivity for high concentration side

Ion slope of -1 and -2: sensitivity for low concentration side

Sensitivity for ② ③ :

Ion slope of +1 and +2: sensitivity for low concentration side

Ion slope of -1 and -2: sensitivity for high concentration side

Press the  key once more to return to the latest calibration date display. You can also return to the latest calibration date display by pressing the  key in the reverse order.

**Criteria for ION offset potential and sensitivity**

Ion offset potential is the referential potential used to determine whether the calibration was conducted successfully or the usable life of the electrode has been exceeded.

The following table shows the normal range of the ION offset potential and sensitivity. If any such values are out of the range shown below, you need to clean the electrode and perform calibration again. If you obtain a value out of the range even after re-calibration, the electrode needs to be replaced.

Electrode	Ion offset potential		Sensitivity
	1 mol/L	1 g/L	
Cl <sup>-</sup>	27 ± 50 mV	116 ± 50 mV	-57.5 ± 5 mV
F <sup>-</sup>	-180 ± 50 mV	-103 ± 50 mV	-60 ± 5 mV
NO <sub>3</sub> <sup>-</sup>	-55 ± 70 mV	43 ± 70 mV	-54.5 ± 6 mV
K <sup>+</sup>	115 ± 60 mV	23 ± 60 mV	57.5 ± 5 mV
Ca <sup>2+</sup>	29 ± 40 mV	-17 ± 40 mV	28.5 ± 3 mV



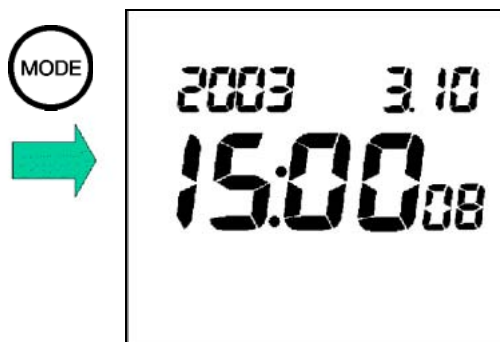
## 3.3 Displaying and setting the clock

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The clock needs to be when the meter is used for the first time or after replacing the batteries.

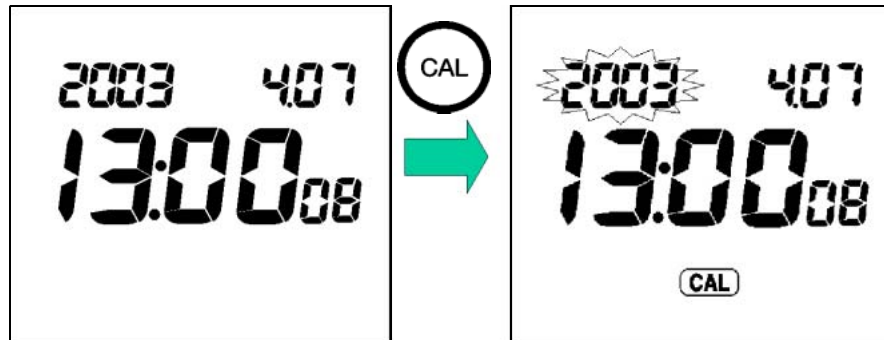
### Displaying the clock

Press the MODE key in the Measurement mode to display the clock.



## Setting the clock

1. Press the CAL key when the Clock Display screen is displayed to show the Setting screen for the clock.



2. Switch the display to year, month, day, hour, minute, and second using the ENTER key. You can set a numerical value using the and keys.

**Note**

Set the seconds to "00" sec. Pressing the ENTER key sets it to "00".

3. After setting the clock, press the ENTER key to update the setting.  
Pressing the CAL key at this time returns you to the Clock Display screen without changing the current setting.
4. Press the MODE key to return to the Measurement mode.

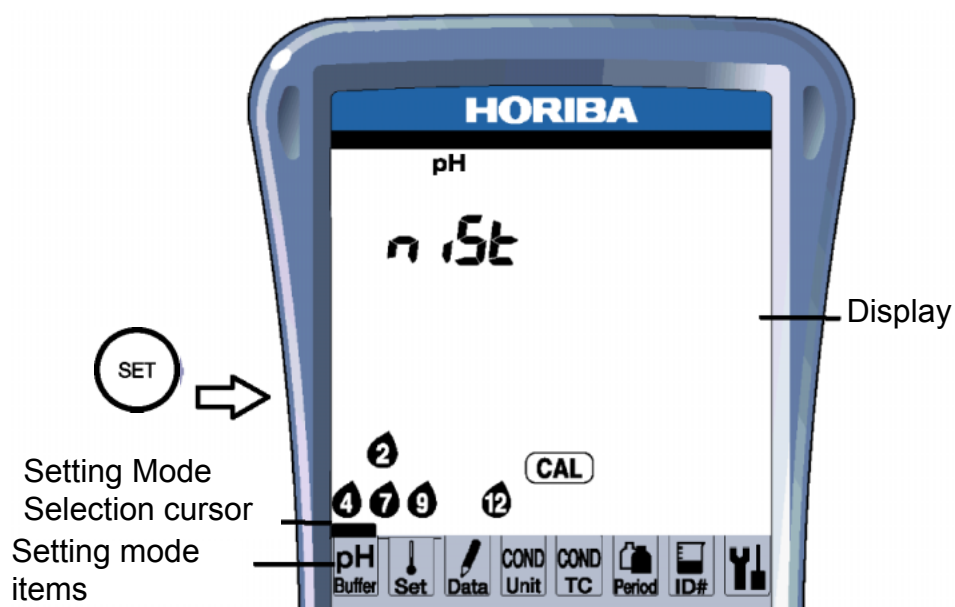
## 3.4 Setting modes

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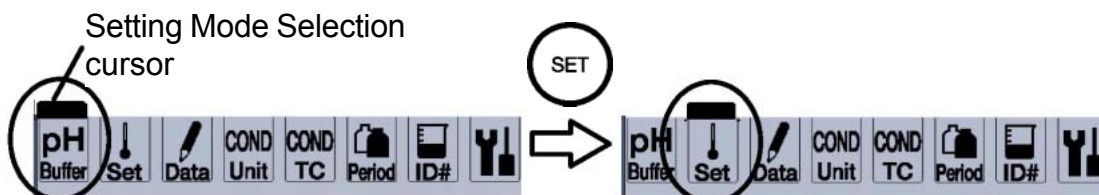
Selecting the Setting mode expands the uses of the meter.

### 3.4.1 Entering the Setting mode

1. Press the SET key in the Measurement mode. The Setting Mode Selection cursor appears at the left-bottom of the screen to indicate that the Setting mode is active.



2. Pressing the SET key moves the Setting Mode Selection cursor one by one to allow you to select the Setting mode of your choice.









**Note**

Selectable Setting modes are different depending on the meter model.







---

3. Press the MEAS key to return to the Measurement mode from the Setting mode.

### 3.4.2 Display and description

Display	Name	Description	Model				Page No.
			D-52	D-53	D-54	D-55	
	pH Buffer	Sets the standard solution for pH calibration.					page 77
	Temperature Compensation	Selects the Auto/Manual mode for temperature compensation.					page 80
	Data Memory	Selects the Auto/Manual mode for data memory function.					page 81
	Calibration Frequency Setting	Sets the number of days between pH electrode calibrations.					page 83
	ID #	Sets a number for a measured sample and stores its data.					page 84
	Maintenance	Sets various maintenance-related settings.					page 89

**3 Functions**  
**3.4 Setting modes**

Display	Name	Description	Model				Page No.
			D-52	D-53	D-54	D-55	
	ION Unit	Sets the unit for ION measurement.	-		-	-	page 85
	ION Slope	Selects ION slope (number of electric charges).	-		-	-	page 86
	COND Unit	Sets the unit for conductivity measurement.	-	-		-	page 86
	COND TC	Sets the temperature coefficient for the sample to be measured in the Conductivity Measurement mode.	-	-		-	page 87
	DO Salt	Sets the salinity compensation value for DO measurement.	-	-	-		page 88
	DO hpa	Sets the atmospheric pressure compensation for DO measurement.	-	-	-		page 89

### 3.4.3 pH standard solution setting

The meter allows you to select the standard solution specifications used for calibration from among the NIST standard, US standard (USA), and use-defined standard (CUST).

NIST standard	When using the standard solution required by NIST standards
	Bottle mark 2 4 7 9 12
US standard (USA)	When using the standard solution required by US standards
	Bottle mark 2 4 7 10 12
Custom (CUST)	When using a user-defined standard solution
	Bottle mark 1 2 3

---

**Ref.**

Refer to “Types of pH standard solution ”on “ Types of pH standard solutions” page 176.

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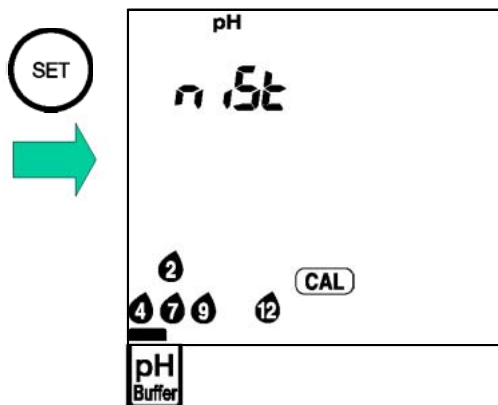
**Note**

The calibrated value for pH 7 standard solution is different between the NIST standards and US standards.  
 NIST standard: pH 6.86 (at 25°C)  
 US standard: pH 7.00 (at 25°C)

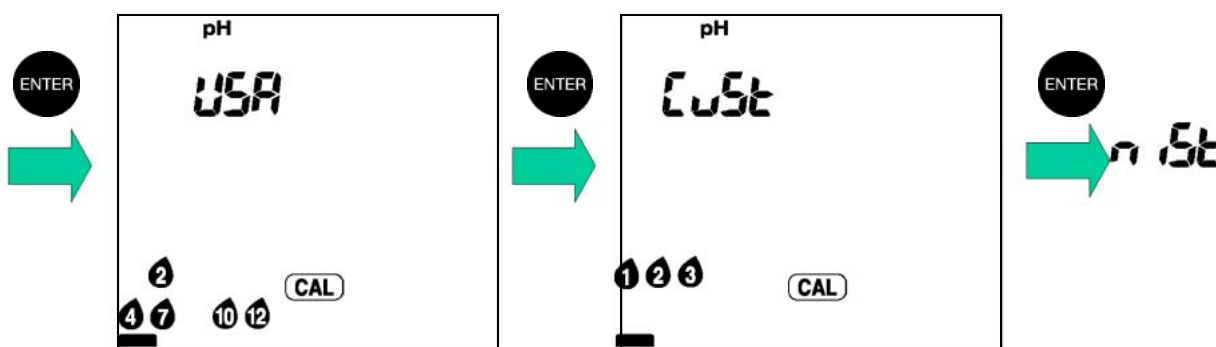
---

### Changing the standard solution setting

1. Press the SET key in the Measurement mode and select the pH Buffer Setting mode.



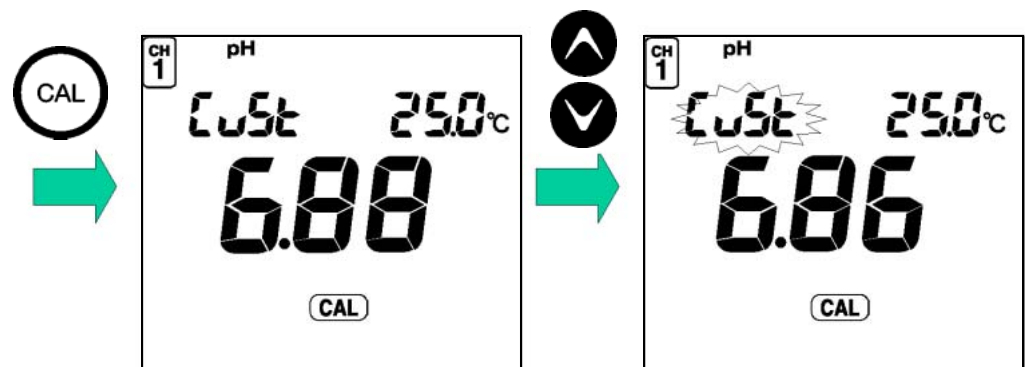
2. Press the ENTER key to toggle between NIST standard, US standard (USA) and a user-defined standard (CUST).



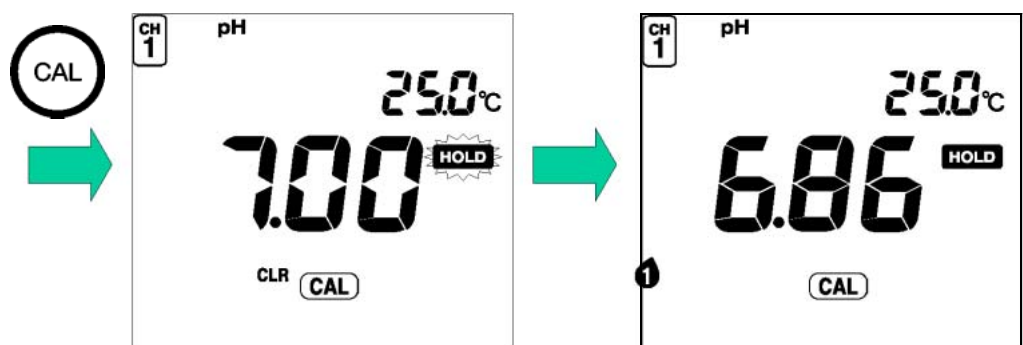
3. Press the MEAS key to return to the Measurement mode.

## Calibration using a user-defined standard (CUST)

1. Press the CAL key in the pH Measurement mode to select the Calibration mode.  
“>CAL<“ will be displayed.
2. Set the pH value of the standard solution used for calibration using the  $\uparrow$  and  $\downarrow$  keys.  
While the setting is being made, “CuSt” will blink.



3. Press the CAL key to start the calibration.  
The measured value will be displayed, and “ HOLD ” will blink until the reading stabilizes.  
When the measured value stabilizes, “HOLD” will stop blinking and the calibrated value will be displayed.



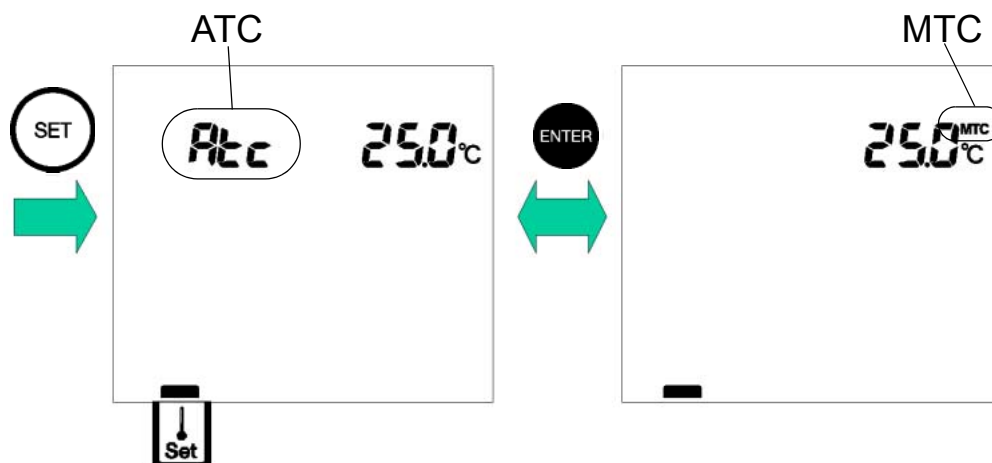
### Note

Perform the calibration for the second and third point following the same procedure.



### 3.4.4 Temperature compensation setting

1. Press the SET key in the Measurement mode to enter the Temperature Compensation Setting mode.
2. Pressing the ENTER key toggles between MTC and ATC settings.



#### ATC

Automatic temperature compensation (when using a temperature sensor of the electrode)

ATC is displayed.

When a temperature sensor is connected, the current temperature is automatically displayed.

(When no temperature sensor is connected, the display shows 25°C.)

#### MTC

Manual temperature compensation (when an electrode temperature sensor is not being used and the temperature of the solution is known before hand)

MTC is displayed.

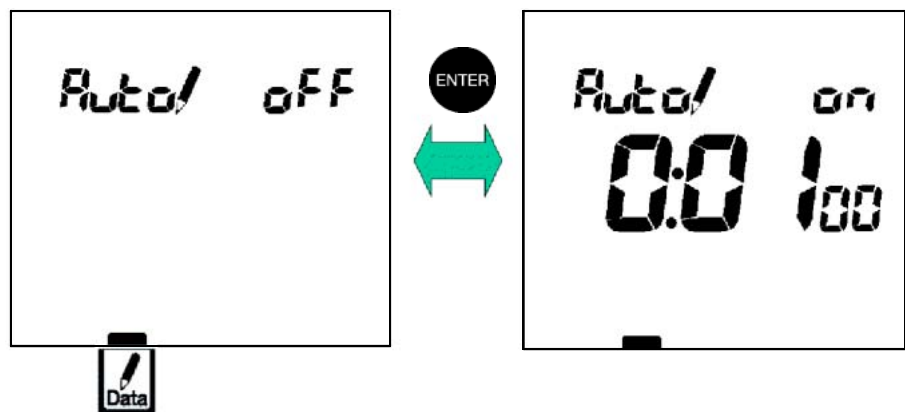
Set the temperature using the      and      keys.

Setting range: 0.0 to 100.0°C

### 3.4.5 Auto data storage setting

You can set the meter to automatically store data at certain intervals.

1. Cancel the Auto Power OFF function.
2. Press the SET key in the Measurement mode to enter the Data Storage Setting mode.
3. Pressing the ENTER key toggles auto data storage function ON and OFF.



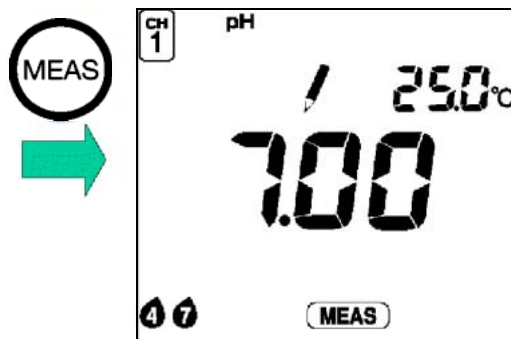
### Memory interval setting


1. Press the MODE key to toggle between hour, minute, and second.
2. Specify a numerical value using the  and  keys.

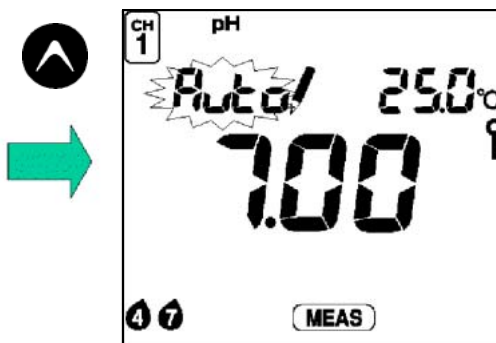
Setting range: 24 hours to 2 seconds

### Carrying out auto data storage

1. Press the MEAS key to return to the Measurement mode.



2. Press the  key.  
Automatic data storage will commence.  
The first data is recorded when the preset time has reached the preset starting time.



#### Note

Do not turn the power ON/OFF during automatic data storage. The reliability of stored data may be compromised depending on when the ON/OFF key was pressed.

3. Press the CAL key.  
Automatic data storage will end.

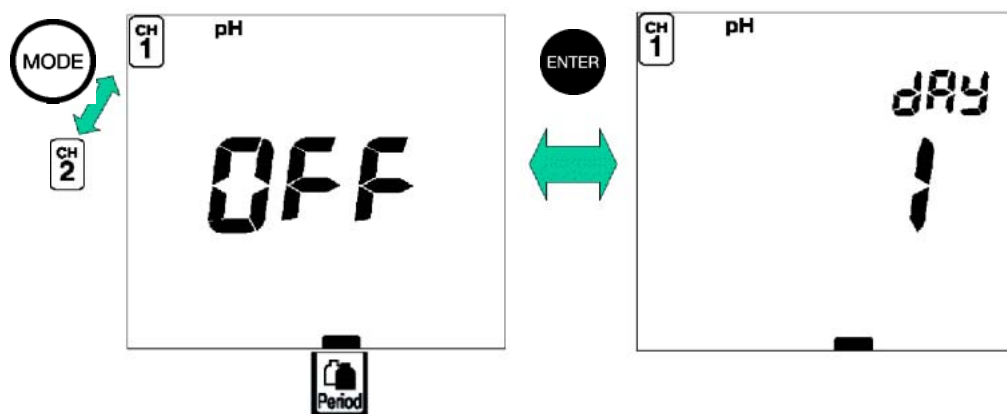
**Note**

During automatic data storage, the MEAS, MODE, SET, ENTER, and CAL DATA keys cannot be used. Data recording time will differ  $\pm 1$  seconds from the time set by the storage interval. If the number of stored data items exceeds 300, data storage will stop and the error message "ERR No. 10" will be displayed.

### 3.4.6 pH calibration frequency setting

If you set a number of days in the calibration frequency setting, ERR 8 (calibration frequency error) will be displayed after the specified days have passed since the last calibration.

1. Press the SET key in the Measurement mode to select the Calibration Interval Setting mode.
2. Pressing the ENTER key toggles the calibration frequency setting between ON and OFF.

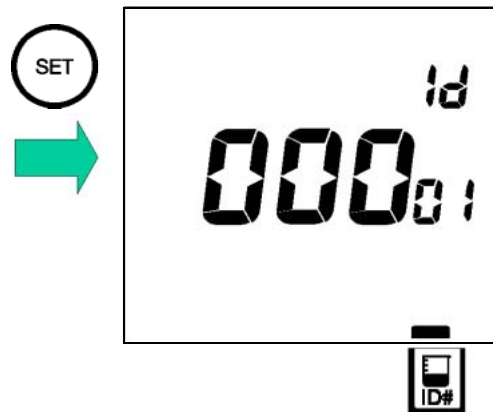




3. Pressing the MODE key toggles between CH1 and CH2 (D-53 ).
4. Specify a numerical value using the      and      keys.  
Setting range: 1 to 400 days

### 3.4.7 Sample ID# setting

Setting the sample ID# records its sample ID number as well as the measured data at time the data is stored.

1. Press the SET key in the Measurement mode to enter the ID# Setting mode.

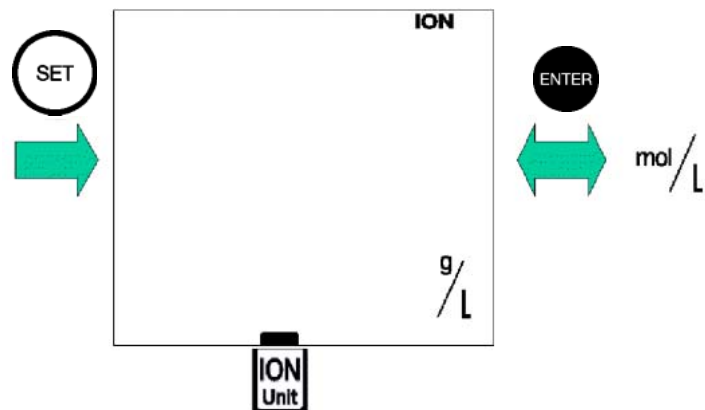


2. Use the ENTER key to select the digit.
3. Specify a numerical value using the  and  keys.

Setting range: 00000 to 99999

### 3.4.8 Ion unit setting (D-53 )

1. Press the SET key in the Measurement mode and select the ION Unit Setting mode.
2. Pressing the ENTER key toggles between g/L and mol/L for the unit setting.

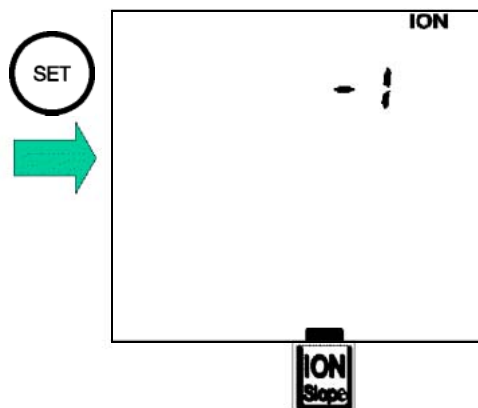


**Note**

It is not possible to set different units for CH1 and CH2. Once the unit is changed, the previous calibration data will be lost.

### 3.4.9 Ion slope setting (D-53)

1. Press the SET key in the Measurement mode and select the ION Slope Setting mode.



2. Specify a numerical value using the  $\leftarrow$  and  $\rightarrow$  keys.

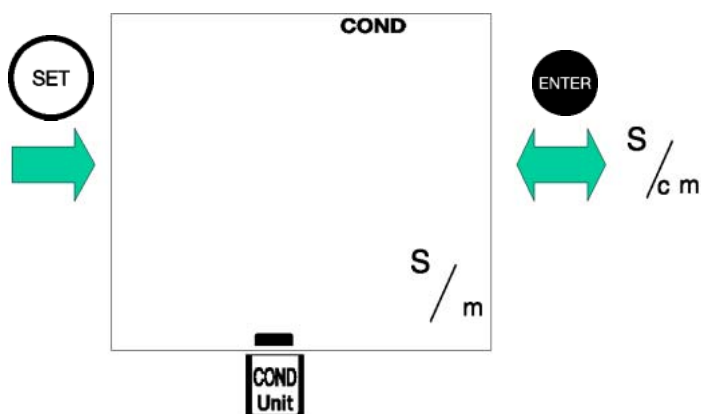
Setting range: -2, -1, +1, +2

**Note**

Once the ION slope is changed, the previous calibration data will be lost. Different ION slopes cannot be set for CH1 and CH2.

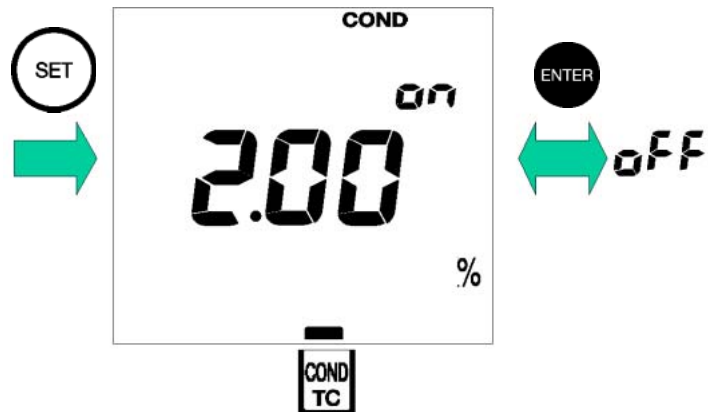
### 3.4.10 Conductivity unit setting (D-54 )

1. Press the SET key in the Measurement mode and select the COND Unit Setting mode.
2. Use the ENTER key to toggle between S/m and S/cm units.



### 3.4.11 Temperature coefficient setting (D-54 )

1. Press the SET key in the Measurement mode and select the COND TC Setting mode.
2. Pressing the ENTER key toggles the temperature conversion ON and OFF.



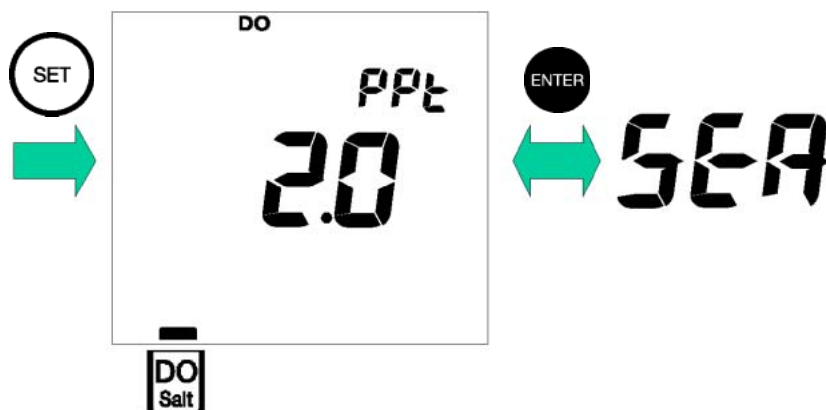
3. Specify a numerical value for the temperature coefficient using the and keys.

Setting range: 0.00 to 10.00% per



### 3.4.12 DO salinity compensation setting (D-55 )

1. Press the SET key in the Measurement mode and select the DO Salt Setting mode.
2. Pressing the ENTER key toggles between seawater salinity (SEA) and a user-defined value.



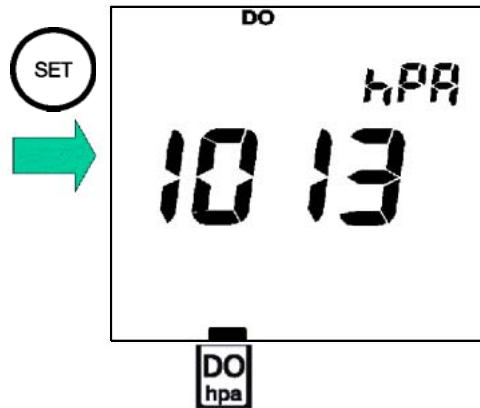
3. Specify a numerical value using the  and  keys.  
Setting range: 0.0 to 40.0 ppt

**Note**

The predefined seawater salinity (SEA) is 35 ppt.

### 3.4.13 DO atmospheric pressure compensation setting (D-55 )

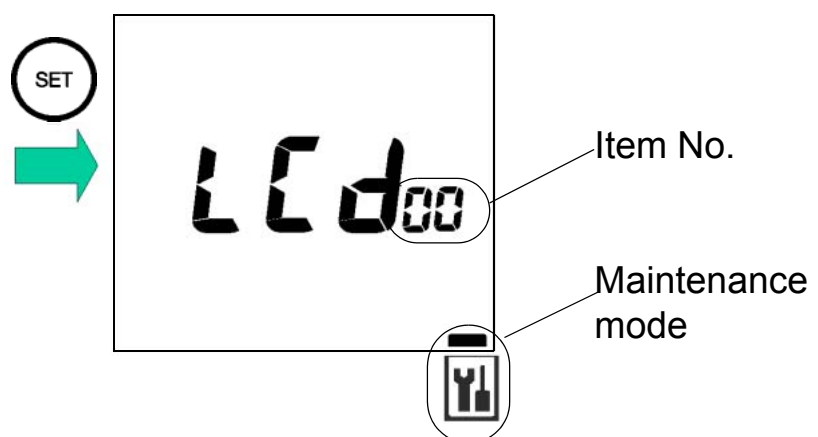
1. Press the SET key in the Measurement mode and select the DO hpa Setting mode.



2. Specify a numerical value using the and keys.  
Setting range: 100 to 1999 hPa

### 3.4.14 Maintenance mode

Press the SET key in the Measurement mode and select the Maintenance mode. The LCD CHECK screen (Item No. 00) will appear.



## Maintenance setting items

Use the MODE key to toggle between Maintenance mode items.

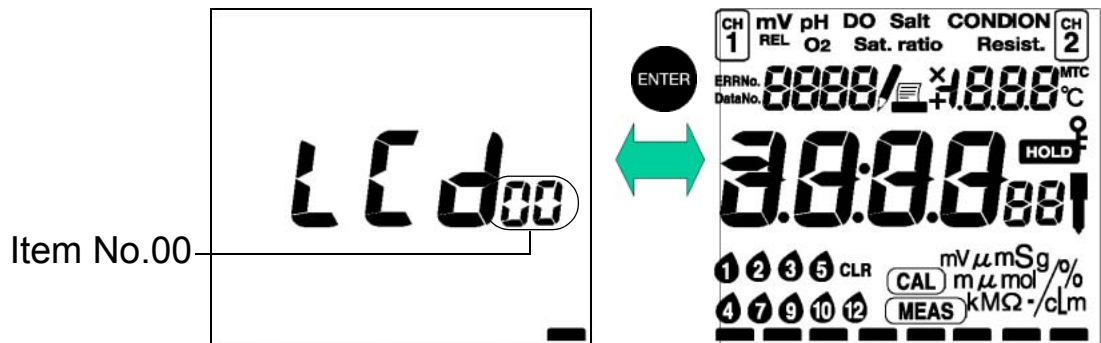
Item No.	Item	Description	Page No.
00	LCD check	Enables check to see if all LCD segments are displayed.	page 91
01	Battery voltage check	Enables simple battery voltage check.	page 92
02	Temperature zero adjustment	Carries out temperature calibration when the temperature sensor is immersed in a liquid of known temperature.	page 93
03	Automatic power-off setting	Turns Automatic Power-off function ON/OFF and sets time period after which the power will be turned off when no keys are touched.	page 94
04	pH/ION CH setting	Enables CH 1 and CH 2 to be used and both channels to be set for pH measurement (ION measurement).	page 95
05	Remaining data memory	Displays number of data items that can still be stored.	page 96
06	Data memory clear	Clears all data in the data memory.	page 96
07	Initialization of setting	Initializes all settings to default values.	page 97
08	Printer connection and printing test	Carries out a printing test.	page 98

## LCD check [item No. 00]

Displays all segments of the LCD.

1. Press the MODE key in the Maintenance mode to show item No. 00.
2. Press the ENTER key.

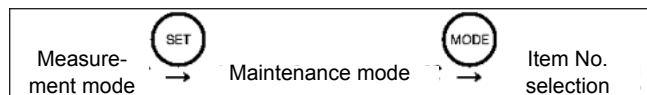
Compare the LCD screen with this diagram to confirm that all segments of the LCD are displayed.



3. Use the MODE key to proceed to the Battery voltage check (item No. 01).

**HINT!**

### Entering the Maintenance mode



## Battery voltage check [item No. 01]

The battery voltage (V) is displayed.



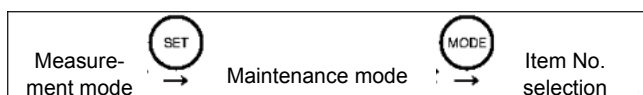
**Note**

The battery voltage alarm is set at approximately 2.2 V. The measured voltage for batteries depends on the current. The voltage shown in this mode will be a little lower than the actual voltage.

1. Use the MODE key to proceed to temperature zero adjustment (item No. 02).

**HINT!**

### Entering the Maintenance mode

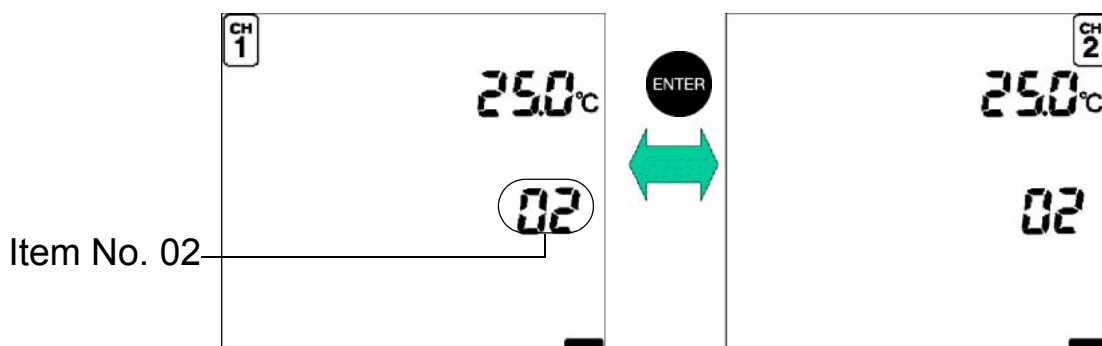


## Temperature zero adjustment [item No. 02]

This mode uses a known temperature to calibrate the temperature compensation value. This mode is used when calibrating the temperature of the thermometer.

1. Press the ENTER key to toggle between CH1 and CH2.
2. Immerse the electrode in a liquid with a known temperature, and set the temperature using the and keys.

Setting range: 0.0 to 100.0 °C



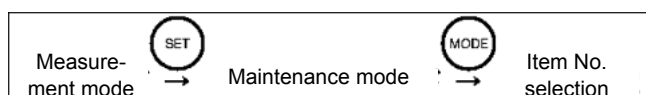
### Note

The temperature sensor attached to the electrode maintains an accuracy of  $\pm 1^\circ\text{C}$ , even without calibration. The above mode should be used when a greater precision than  $\pm 1^\circ\text{C}$  is required.

3. Use the MODE key to proceed to Automatic power-off setting (item No. 03).

### HINT!

#### Entering the Maintenance mode



## Automatic power-off setting [item No. 03]

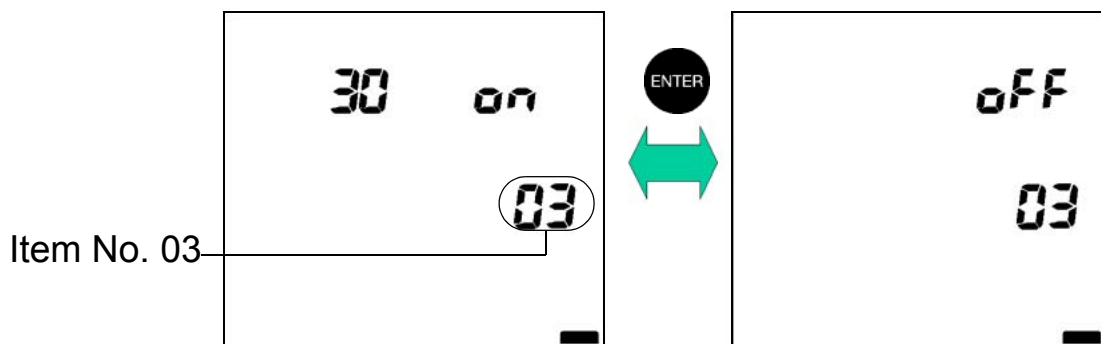
This turns the Automatic Power-off function ON/OFF and sets the time until the power is turned off.

When the Automatic Power-off function is set to ON, the power to the meter automatically turns off if the keys are not operated for the set amount of time.

1. Press the ENTER key to toggle between ON and OFF.

When set to ON, set the time for the power to be turned OFF using the and keys.

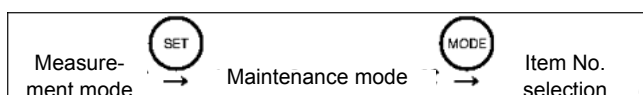
Setting range: 1 to 30 minutes



2. Use the MODE key to proceed to pH/ION CH setting (item No. 04).

— HINT! —

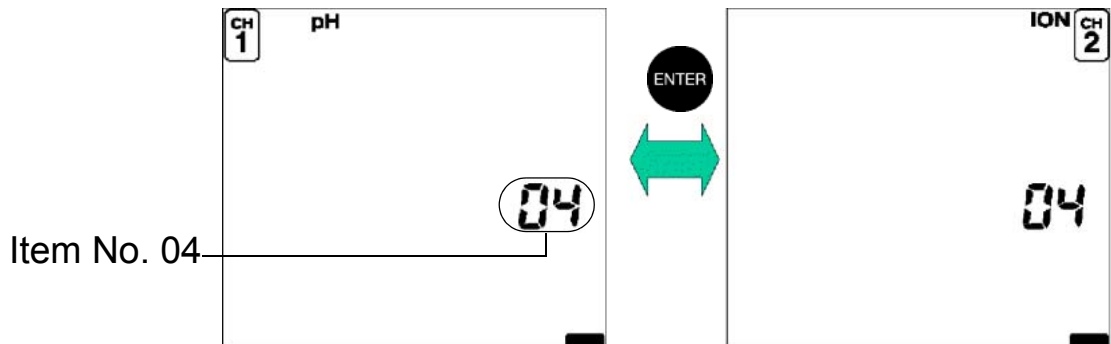
### Entering the Maintenance mode



## pH/ION CH setting [item No. 04] (D-53 )

Both channels can be used to measure the pH and ions.

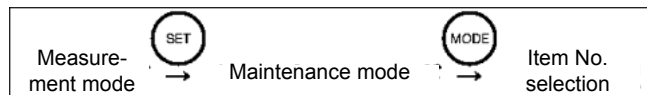
1. Press the ENTER key to toggle between CH1 and CH2.
2. Use the or keys to select the pH/ION measurement channel.



3. Press the MODE key to proceed to Remaining data memory (item No. 05).

— HINT! —

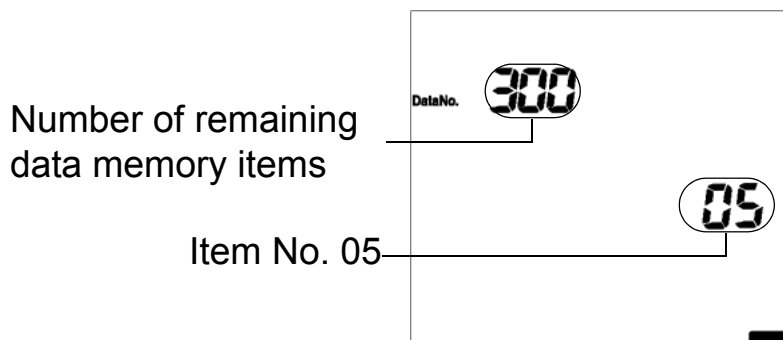
### Entering the Maintenance mode





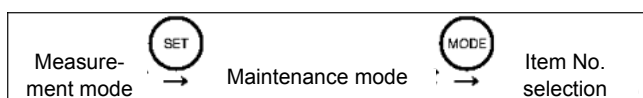
## Remaining data memory [Item No. 05]

Displays the number of data items that can still be stored.



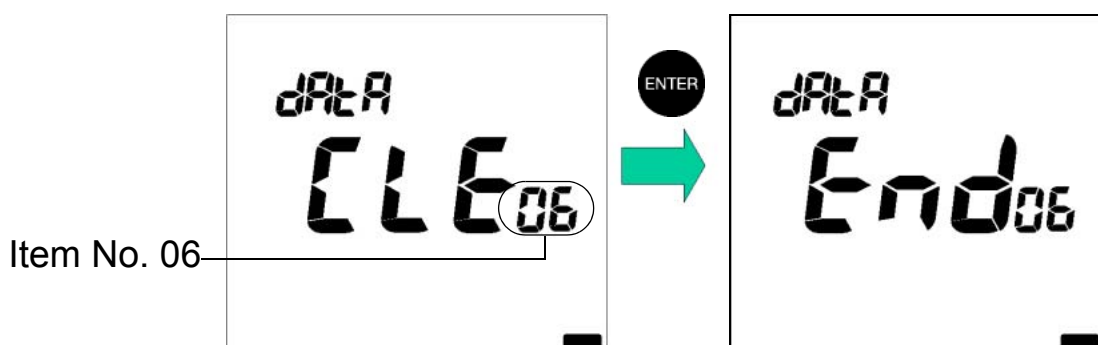
1. Press the MODE key to proceed to Data memory clear (item No. 06).

— **HINT!** —  
**Entering the Maintenance mode**



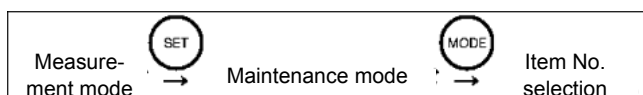
## Data memory clear [Item No. 06]

1. Pressing the ENTER key clears all the data stored in the memory.



2. Press the MODE key to proceed to Initialization of setting (item No. 07).

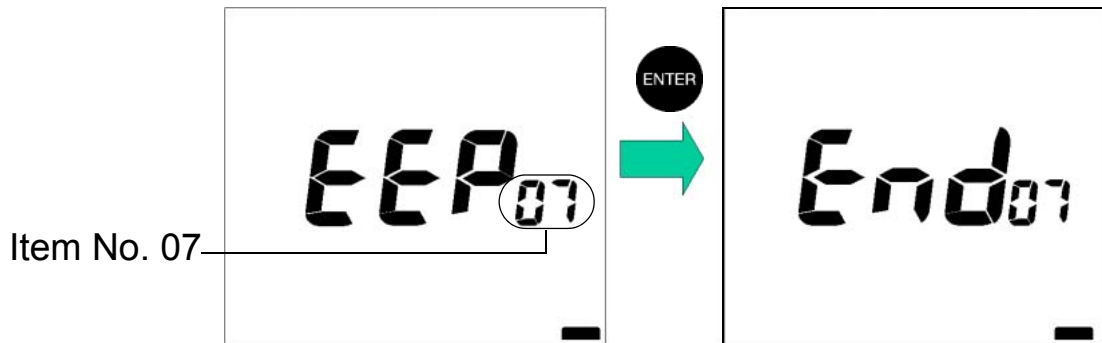
— **HINT!** —  
**Entering the Maintenance mode**



## Initialization of setting [item No. 07]

This mode returns all settings to the default settings. Use this mode to return the pH meter to the original settings when the meter was purchased.

1. Press the ENTER key to initialize the settings.



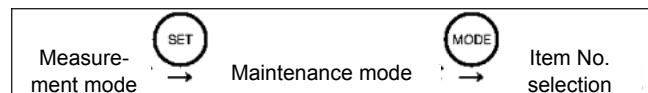
2. Use the MODE key to proceed to Printer connection and printing test (item No. 08).

— **Ref.** —

The setting values to be initialized are shown on page 202.

— **HINT!** —

**Entering the Maintenance mode**

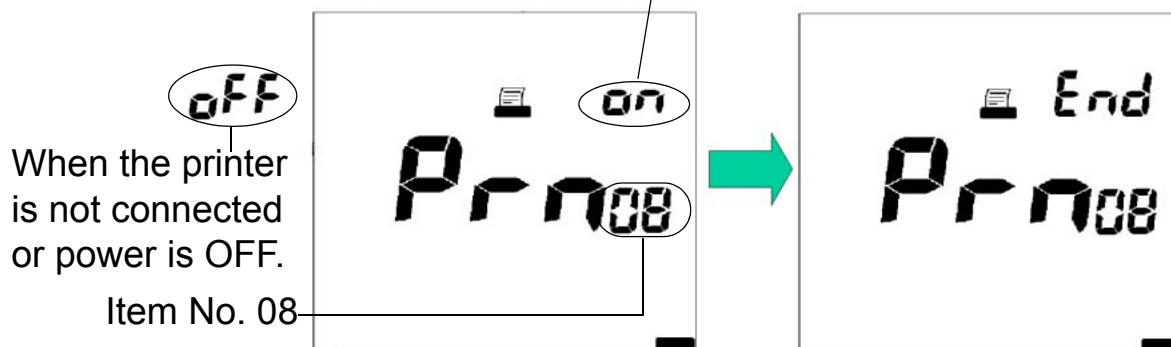


## Printer connection and printing test [item No. 08]

A printing test is conducted if a printer is connected.

1. Press the ENTER key to start the printing test.  
When conditions are normal, "End" is displayed.  
When conditions are not normal, "Err" is displayed.

When the printer is connected and power is ON.



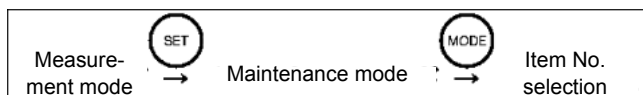
2. Press the MODE key to return to the first item in the maintenance modes, LCD check.

### Test print format

```
!"#$%&'()*+,-./0123
456789:;<=>?@ABCDEFGH
IJKLMNOPQRSTUVWXYZ[
\]^_`abcdefghijklmnop
qrstuvwxyz{|}
```

— **HINT!** —

### Entering the Maintenance mode



# 4 RS-232C communications

This chapter describes the use of RS232C communications and its communication commands.

## 4.1 Cautions before use

---

Use caution regarding the following points, when using RS-232C communications.

- Use the following designated cable for connecting to the computer.

Part name: PC cable for 50 Series

Part number: 9096004800

- Make sure that the data transfer formats for the meter and computer match. The following data transfer format is used by the meter.

Baud rate: 2400 bps

Character length: 8 bits

Parity: None

Stop bits: 1

---

**Note**

If the data transfer formats differ, communications errors may occur or the on-line mode may not start up, and RS-232C communications cannot proceed normally. If the transfer format is changed, turn the power to both the pH meter and the computer OFF, and then ON again.

---

- When creating a program for RS-232C, put the meter in the ON-LINE mode by entering an on-line command at the beginning of the program. The control switches become invalid when the meter is in the ON-LINE mode, and the RS-232C Communications mode is enabled ("LOCK" is displayed.) The ON-LINE mode is cleared when the power is turned OFF.

## 4 RS-232C communications

### 4.1 Cautions before use

- If data is requested but not received, create the program structure to have the data request repeated after a short waiting time. This will provide more reliable communications.
- If RS-232C communications is not used, cover the RS-232C port with a rubber cap.
- This system does not carry out control using DCD, CTS or DSR. Note this point when creating a program.

## 4.2 Command list

---

Use <CR><LF> as the terminator for serial communication commands.

All the commands (except the ON-LINE/OFF-LINE command) are valid only in the ON-LINE mode. (An error message is returned in the OFF-LINE mode.)

The meter returns a response to any operation made in the following format:

OK<CR><LF>

If the pH meter does not accept the operation, it returns an error message in the following format:

ER,n<CR><LF>

n=0: Communication error

- 1: When a non-existent command is input.
- 2: When a timing command is input to which the meter cannot respond.
- 3: When the numerical value in the command is out of the setting range.

## On-line operations commands

Command item	Command		Page No.
	Header	Command code	
On-line/off-line	C	OL	page 104
Halt potential hunting		BR	page 108
pH Measurement mode designation		PH	page 104
mV Measurement mode designation		MV	page 105
Ion Measurement mode designation		IO	page 106
Conductivity Measurement mode designation		CO	page 106
DO Measurement mode designation		DO	page 107
Start measurement		MS	page 107
Start pH standard solution calibration		CP	page 108
Start ion calibration		CI	page 109
Start conductivity cell constant calibration		CD	page 110
Start DO calibration		CA	page 111
Clear calibration		CC	page 111
Data clear		DC	page 112
Data In designation		IN	page 112
Power Off	OF	page 112	

## Request data commands

Meters that can use commands	Request for ...	Command		Page No.
		Header	Command code	
All	pH calibration history	R	PC	page 114
D-53	Ion calibration history		IC	page 116
All	Clock data		OT	page 118
	Measurements		MD	page 119
	Number of stored data items		MC	page 121
	Memory data	MS	page 122	
	Model inquiry	A	RS	page 125
	Software version inquiry		AV	page 125

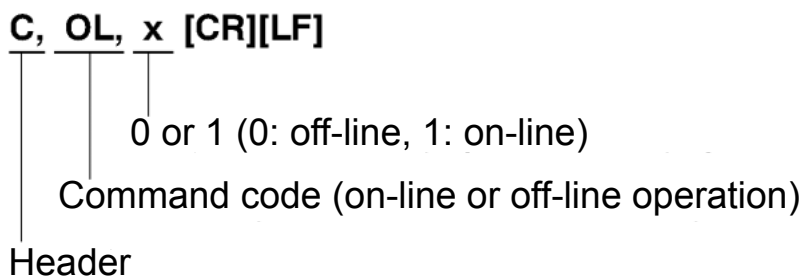


## 4.3 On-line operation commands

---

This section explains the commands that control the operation of the pH meter.

### ON-LINE/OFF-LINE command format

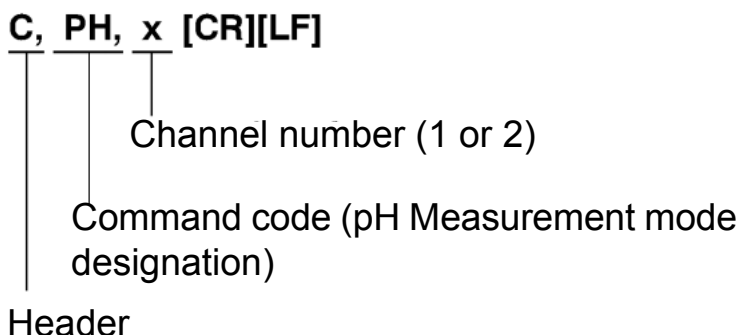


#### Note

Switching between on-line and off-line. When the meter is switched from off-line to on-line, the status of the pH meter is the same as when a command has been received. "LOCK" is displayed.

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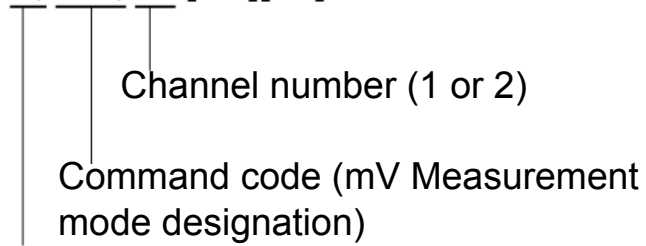
### pH Measurement mode designation command format



- This command is always valid when on-line.
- The meter changes the status to pH Instantaneous display for the selected channel number.
- This command is valid only when the settings for CHECK mode item no. 05 (pH/ION CH setting) match. If the settings do not match, this response will occur: ER, 2 [CR][LF] (operational error).
- Channel No. 2 is only available on the D-53 model.

## mV Measurement mode designation command format

**C, MV, x [CR][LF]**



Header

- This command is always valid when on-line.
- The meter changes the status to mV Instantaneous display for the selected channel number.
- Channel No. 2 is only available on the D-53 model.

## Ion Measurement mode designation command format (D-53 )

C, IO, x [CR][LF]

Channel number (1 or 2)

Command code (Ion Measurement mode designation)

Header

- This command is always valid when on-line.
- The meter changes the status to Ion Instantaneous Value display for the selected channel number.
- This command is valid only when the settings for MAINTENANCE mode item no. 05 (pH/ION CH setting) match on the D-53. If the settings do not match, this response will occur: ER, 2 [CR][LF] (operational error).
- When this command is sent (with the exception of the D-53 model), the reply is: ER, 2 (operational error).

## Conductivity Measurement mode designation command format (D-54 )

C, CO [CR][LF]

Command code (Conductivity Measurement mode designation)

Header

- This command is always valid when on-line.
- The meter changes the status to Conductivity Instantaneous Value display
- When this command is sent (with the exception of model D-54), the reply is: ER, 2 [CR][LF] (operational error).

## Dissolved Oxygen Measurement mode designation command format (D-55 )

**C, DO [CR][LF]**

Header  
|  
| Command code (Dissolved Oxygen Measurement mode designation)

- This command is always valid when on-line.
- The meter enters the Dissolved Oxygen Instantaneous Value display.
- If this command is sent to D-53 or 54 produces ER,2 (operational error).

## Start measurement command format

**C, MS, x [CR][LF]**

Header  
|  
| Command code (Start measurement)  
|  
| Channel number (1 or 2)

- When the meter status is Instantaneous Measurement, Auto Hold Measurement will start.
- If the command is issued during a measurement hold or during calibration, the meter will return to the initial screen status.

## Halt potential hunting command format

**C, BR, x [CR][LF]**  
|     |     |  
|     |     | Channel number (1 or 2)  
|     |     | Command code (Measurement halt)  
|     |     |  
Header

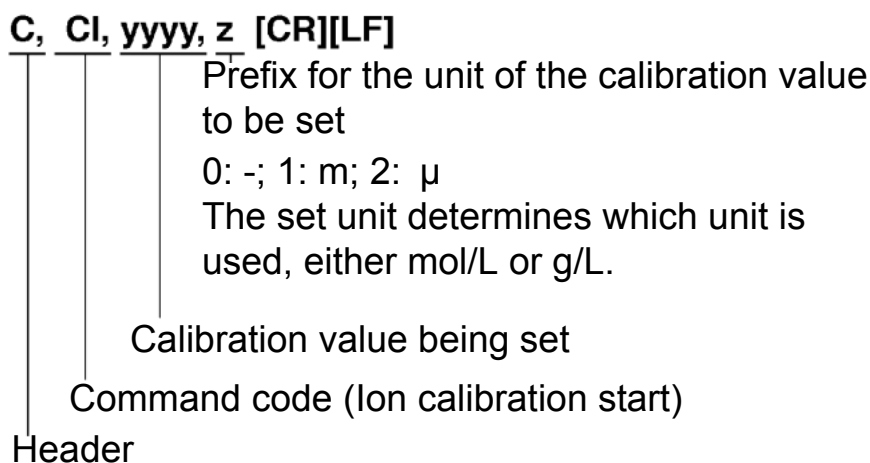
- This command is valid when on-line only during measurement on AUTO HOLD.
- Issuing this command halts measurement on AUTO HOLD.

## Start pH standard solution calibration command format

**C, CP, x [CR][LF]**  
|     |     |  
|     |     | Channel number (1 or 2)  
|     |     | Command code (pH standard solution calibration  
|     |     | start)  
Header

- This command is valid when on-line, during pH measurement, or when "HOLD" is displayed.
- This command is valid only when the meter is set for NIST or US calibration.
- Issuing this command starts the pH standard solution calibration.

## Start ion calibration command format (D-53 )



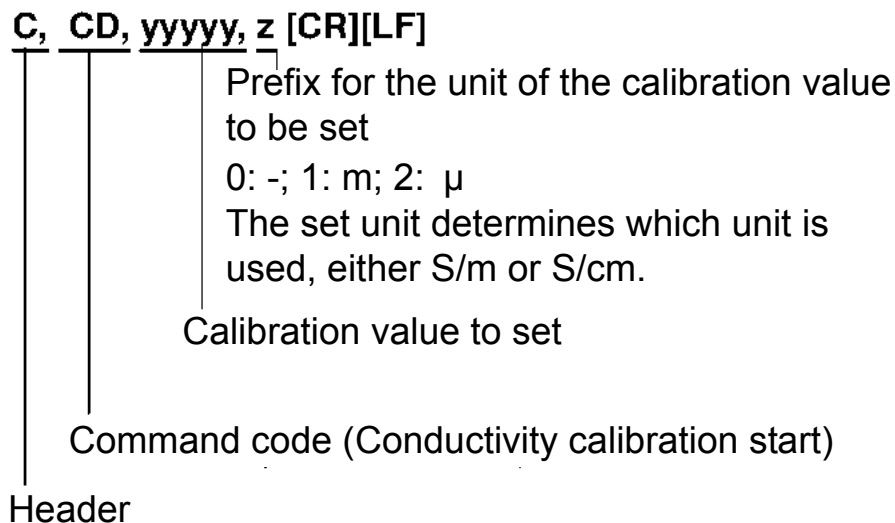
- This command is valid when on-line, in ion measurement, or while "HOLD" is displayed.
- If the start calibration command is sent while in the Measurement mode, the previous calibration values will be cleared.

### Setting ranges for calibration values

When the units are mg/L,  $\mu$ mol/L, mmol/L or  $\mu$ mol/L:

- 0.00 - 9.99  
([SP][SP]X or [SP]X.X are also possible.)
- 10.0 - 99.9  
([SP]XX is also possible.)  
[SP]100 - [SP]999

## Start conductivity cell constant calibration command format (D-54 )

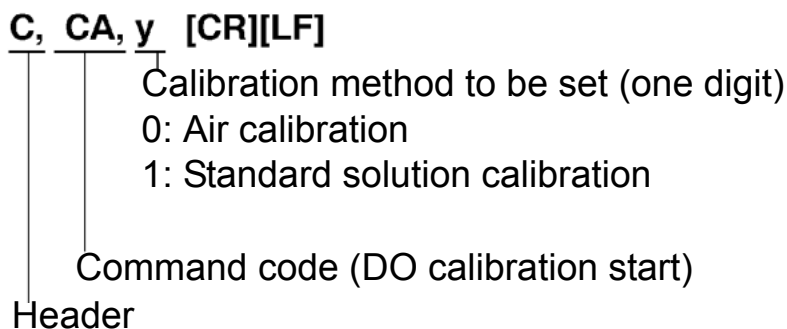


- This command is valid when on-line, when conductivity measurement or calibration are on HOLD.
- This command starts the calibration of the conductivity cell constant.

### Setting ranges for calibration values

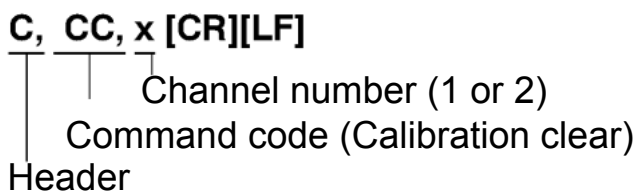
- When units are  $\mu$  S/m: 0.0 – 999.9 (only one place to the right of the decimal)
- When units are mS/m or S/m: 0.0000 – 199.9
- After calibration is completed, the cell constant/ coefficient will appear on the screen and be stored in the memory.

## Start DO calibration command format (D-55 )



- This command is valid when on-line, when DO measurement or calibration are on HOLD.
- After calibration is finished, “ END ” will be displayed and the calibration coefficient will be stored in the memory.

## Clear calibration command format



- This command is valid when on-line, when “HOLD” is being displayed for ION or pH calibration.
- When a pH electrode is being calibrated, the pH standard calibration value is cleared.
- When an ION electrode is being calibrated, the ION standard calibration is cleared.
- The calibration value of the channel being displayed currently will be cleared.



### Data clear command format

C, DC [CR][LF]  
|       |  
Header   Command code (Data clear)

- This command clears the data stored in the memory.

### Data IN specification command format

C, IN [CR][LF]  
|       |  
Header   Command code (Data IN specification)

- Valid only when manual data memory is set.

### Power Off command format

C, OF [CR][LF]  
|       |  
Header   Command code (Power Off)

## 4.4 Data request commands and responses

---

This section explains the commands that request meter data.

### Format of responses from meter

#### When no operation can be received

**ER, n [CR][LF]**

n = 0: Communications error

1: Command code does not exist

2: Unacceptable timing entered

3: Data exceeds range

#### When operation has been received

A. When data is requested, the result of the request is sent out according to each format.

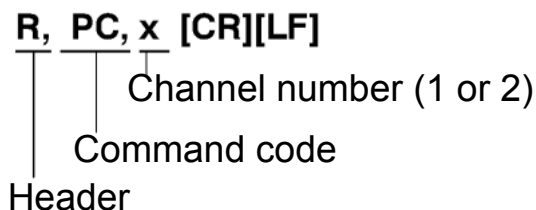
B. When an operation command has been issued, "OK" is sent back.

#### Format

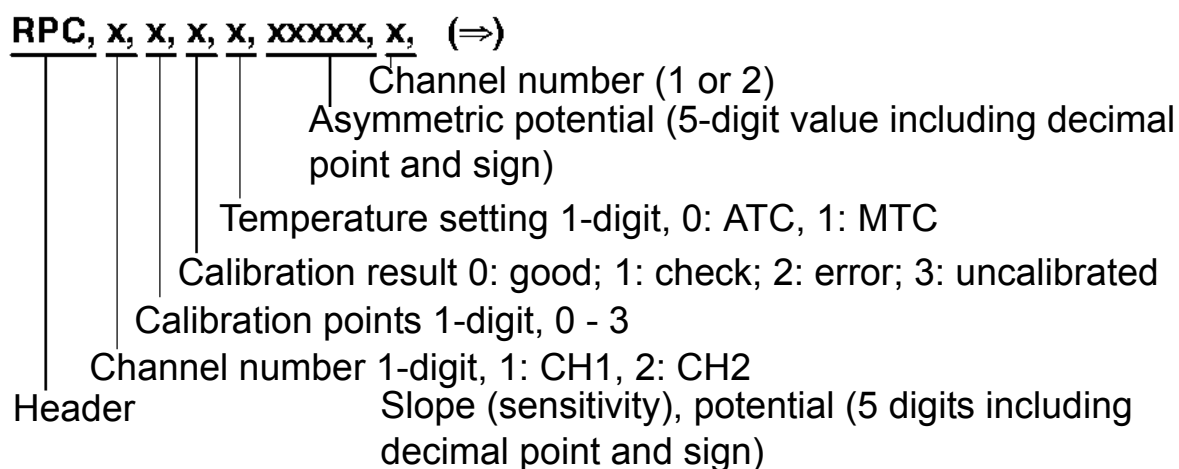
**OK [CR][LF]**

## pH calibration history request command and response

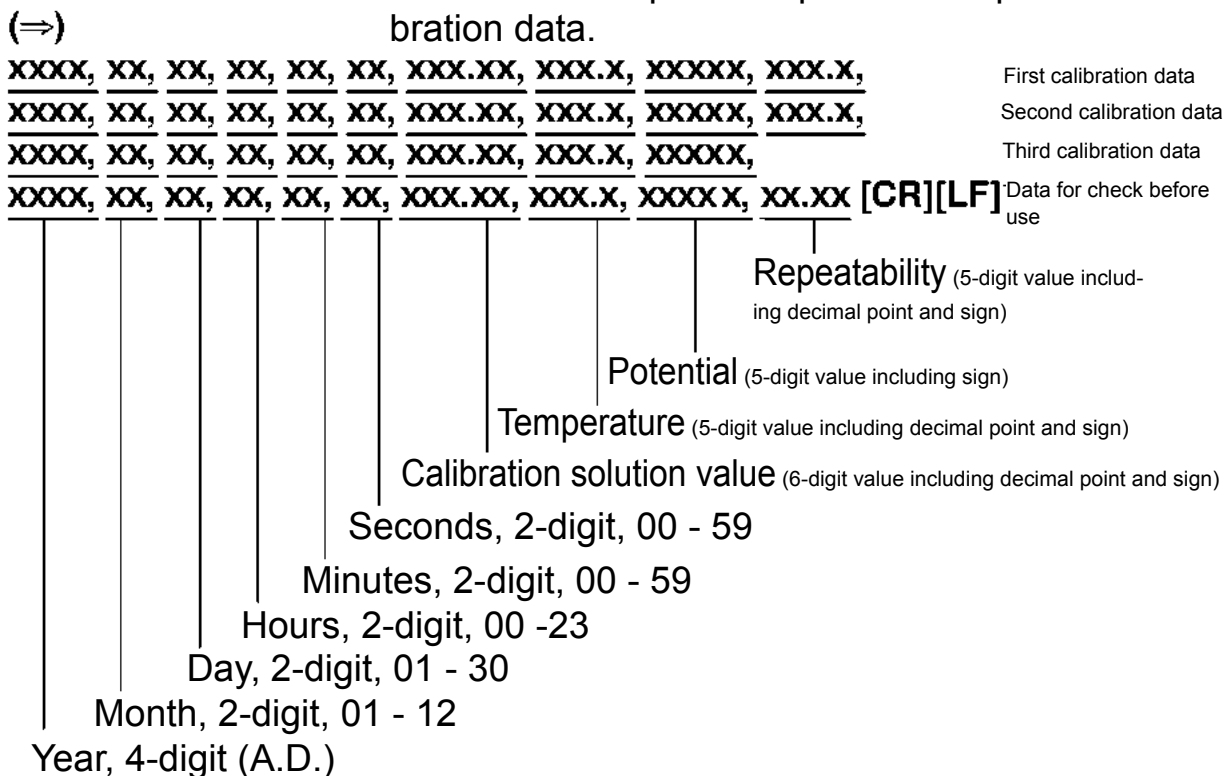
### Request command format



### pH meter response format



\*Potential is output for 1-point and 2-point calibration data.



- The format is of fixed length. When there is no data, enter a [SP].
- The latest calibration date and time are output.
- The calibration data is transmitted only for the number of calibration points used.
- The date and time when the latest calibration was performed is output as the calibration date/time.
- The slope is valid only for calibration with 2 or more points and the slope value for the third point will be a space.
- If the check before use has been performed, this data will be sent after calibration data is transmitted.

### **Slope data**

Slope data is output as the calibration coefficient A between each point multiplied by 100.

When results exceed 999.9 or are negative, the output is [SP][SP][SP][SP][SP].

During calibration, an error response will be issued.

The year/month/day are output for each calibration point.

## Ion calibration history request command and response (D-53)

### Request command format

**R, IC, x [CR][LF]**

Header  
 Command code  
 Channel number, 1-digit, 1: 1CH 2: 2CH

### pH meter response format

**RIC, x, x, x, x, xxxxx, (⇒)**

Header  
 Channel number 1-digit, 1: CH1, 2: CH2  
 Calibration points 1-digit, 0-3  
 Calibration result 0: good; 1: check; 2: error  
 Temperature setting 1-digit, 0: ATC, 1: MTC  
 Asymmetric potential (5-digit value including decimal point and sign)

Slope (sensitivity), potential (5 digits including decimal point and sign)

(⇒) \*Potential is output for 1-point and 2-point calibration data.

**xxxx, xx, xx, xx, xx, xx, xx.xx, x, x, xxx.x, xxxxx, xxx.x,** First calibration data  
**xxxx, xx, xx, xx, xx, xx, xx.xx, x, x, xxx.x, xxxxx, xxx.x,** Second calibration data  
**xxxx, xx, xx, xx, xx, xx, xx.xx, x, x, xxx.x, xxxxx, [CR][LF]** Third calibration data

Potential (5-digit value including sign)  
 Temperature (5-digit value including decimal point and sign)  
 Unit 0: mol/L, 1: g/L  
 Sub unit 0: none; 1: μ; 2: m  
 Calibration solution value (5-digit value including decimal point and sign)  
 Seconds, 2-digit, 00-59  
 Minutes, 2-digit, 00 - 59  
 Hours, 2-digit, 00 -23  
 Month, 2-digit, 01 - 12  
 Month, 2-digit, 01 - 12  
 Year, 4-digit (A.D.)

- The format is of fixed length. When there is no data, enter a [SP].
- The latest calibration date and time are output.

### Slope data

- When results exceed 999.9 or are negative, the output is [SP][SP][SP][SP][SP].
- The year/month/day are output for each calibration point.

## Clock data request command and response

### Request command format

**R, OT [CR][LF]**

Header

Command code

### pH meter response format

**ROT, xxxx, xx, xx, xx, xx, xx [CR][LF]**

Seconds, 2-digit, 0 - 59

Minutes, 2-digit, 0 - 59

Hours, 2-digit, 0 - 23

Day, 2-digit, 01 - 31

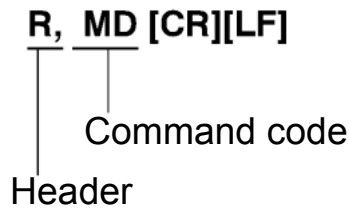
Month, 2-digit, 01 - 12

Year, 4-digit (A.D.; lead zero is suppressed)

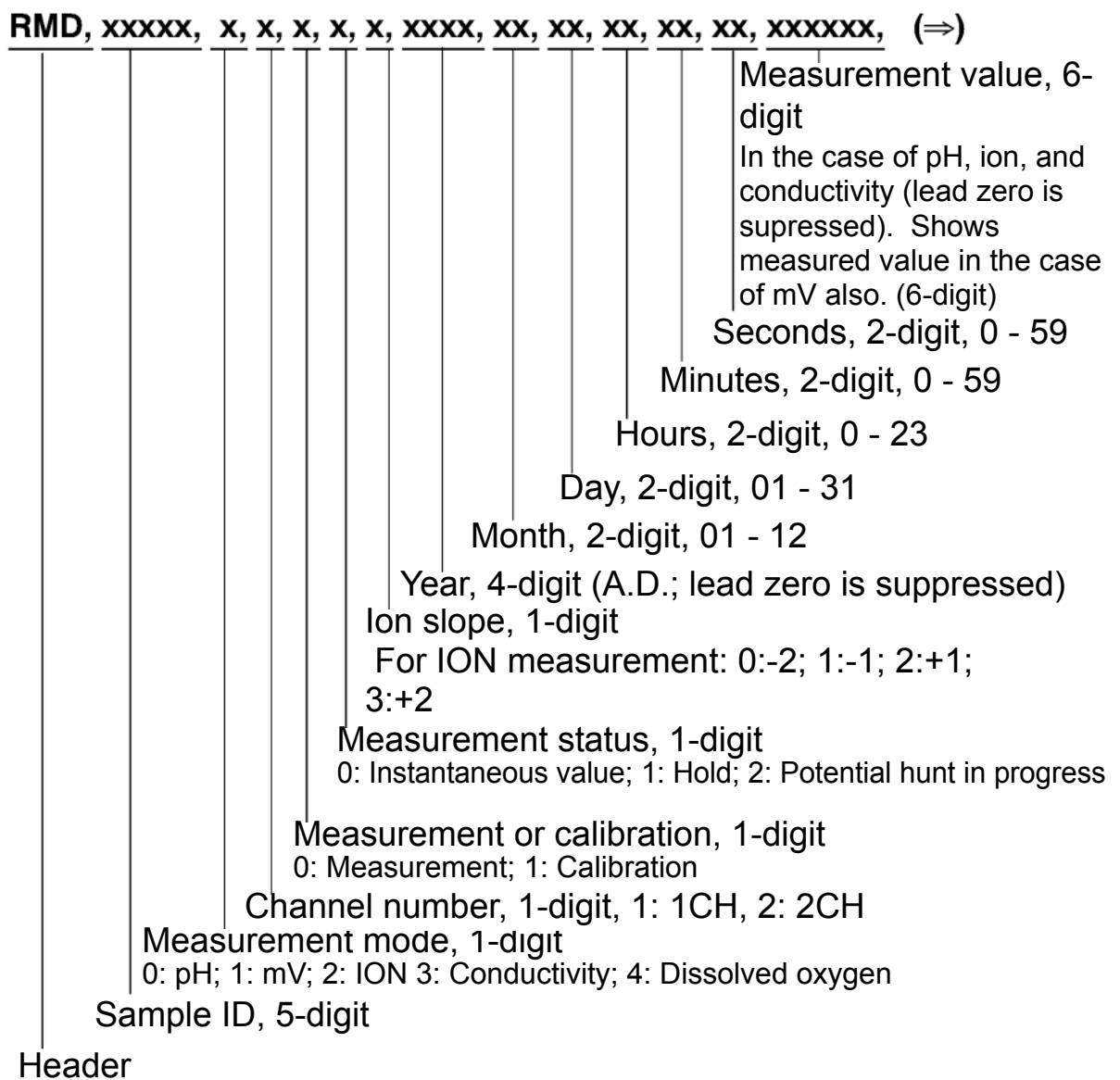
Header

## Measurement request command and response

### Request command format



### pH meter response format





## 4 RS-232C communications

### 4.4 Data request commands and responses

(⇒) x, x, x, xxxxx, xxxxx, xx [CR][LF]

Error code

Error No. display, 2-digit

(One error No. which takes precedence over others is output.)

When the measurement/calibration type is

0: The latest data is output regardless of occurrence of measurement errors.

1: [SP] is output when any calibration error is produced.

Potential, 5-digit

(Lead zero is suppressed.)

Temperature (5-digit including decimal point), -10.0 to 100.0  
Right-aligned with blank digits filled with spaces.

Temperature setting, 1-digit, 0:ATC; 1: MTC

Unit, 1-digit

(Ion) 0: mol/L; 1: g/L

(Conductivity) 0: S/cm; 1: S/m

(pH) 0: None

(DO) 0: mg/L

(mV) 0: mV

Supplementary unit, 1-digit

0: none; 1:  $\mu$ ; 2: m; 3: k; 4: M

## Request command for number of stored data items and its response

### Request command format

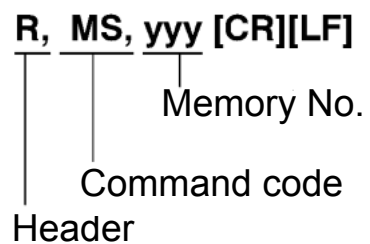
R, MC [CR][LF]  
|       |  
Header Command data

### Meter response format

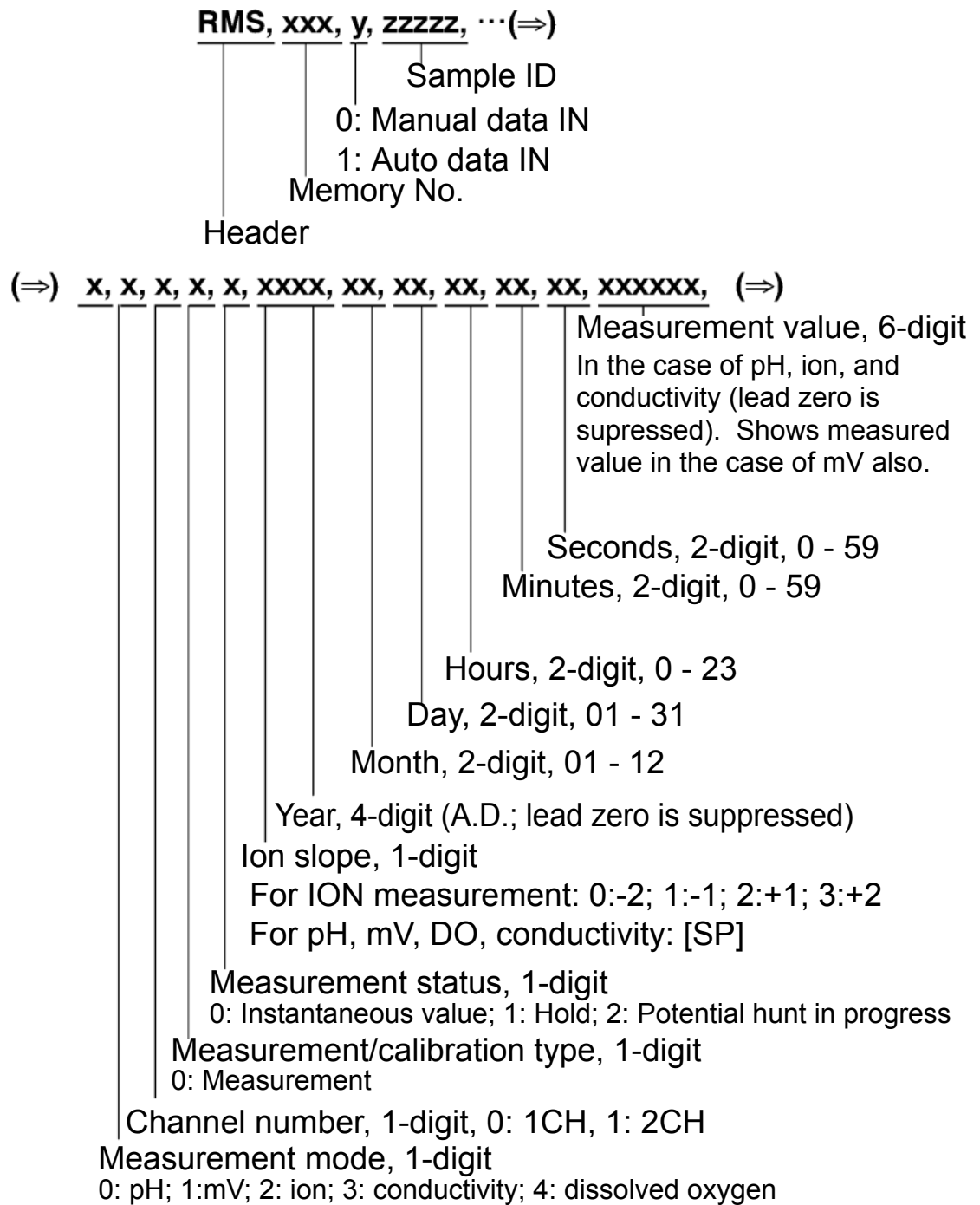
RMC, xxx [CR][LF]  
|       |  
Header Number of data items

## Request command for memory data and its response

### Request command format



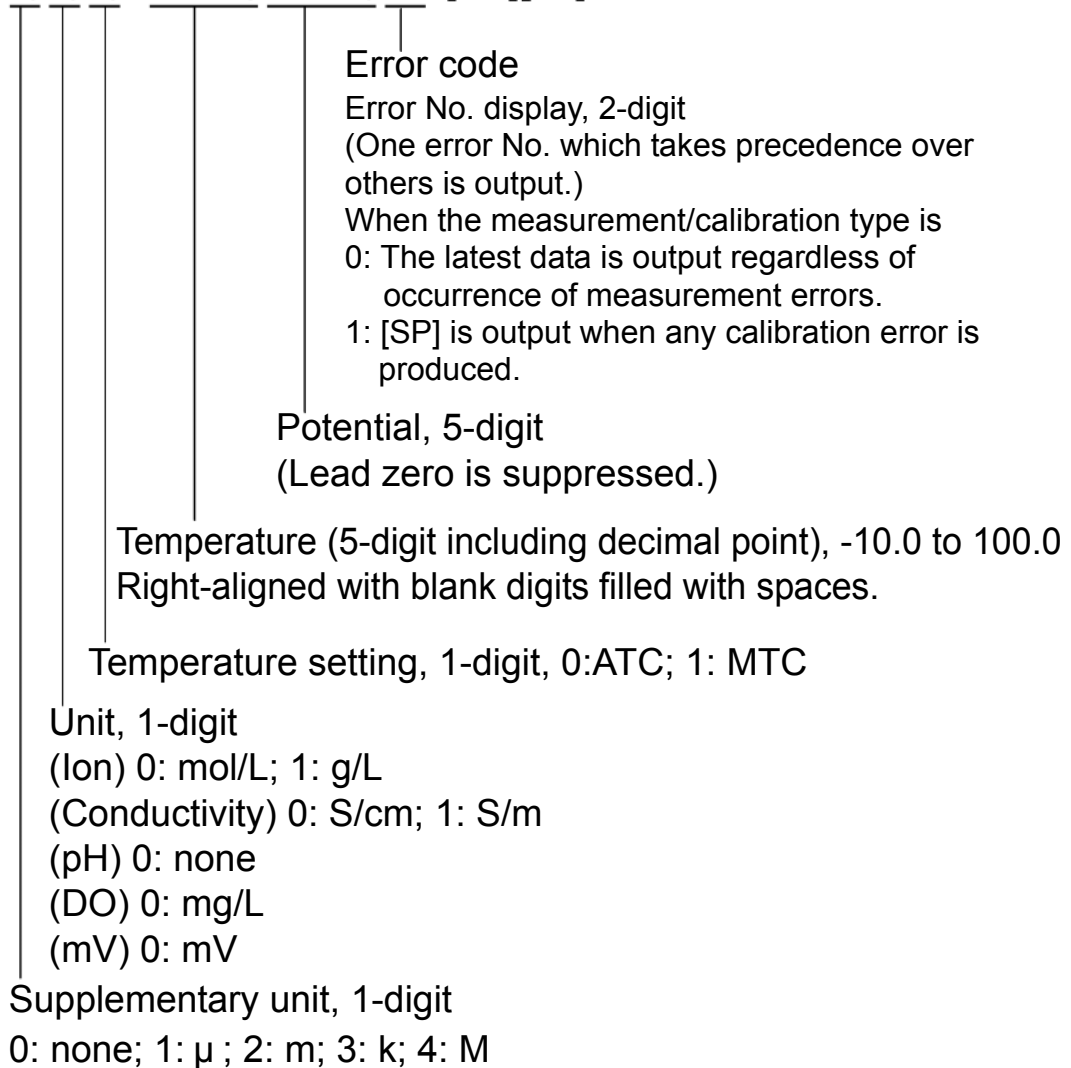
### Meter response format



## 4 RS-232C communications

### 4.4 Data request commands and responses

(⇒) **x, x, x, xxxxx, xxxxx, xx [CR][LF]**



## Request command for model and its response

### Request command format

A, RS [CR][LF]  
|       |  
Header Command code

### Meter response format

ARS, x, yyyyyyy [CR][LF]  
|       |               |  
Header Model           Lot No. (7-digit)  
2: D-52  
3: D-53  
4: D-54  
5: D-55

## Request command for software version and its response

### Request command format

A, AV [CR][LF]  
|       |  
Header Command code

### Meter response format

AAV, xxxxxxxxxxxx [CR][LF]  
|                       |  
Header Software version, 12-digit

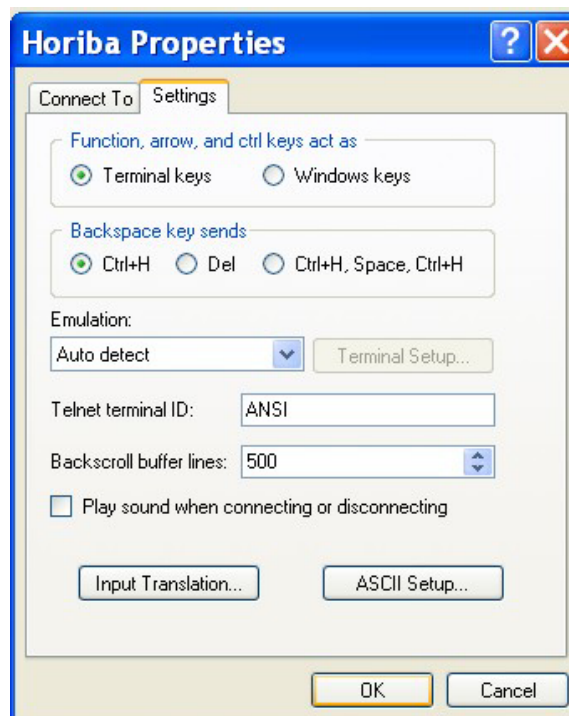
## 4.5 Communication example using the HyperTerminal

---

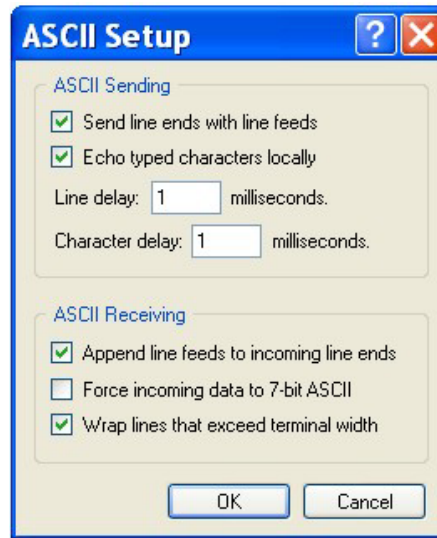
For reference, communication using the HyperTerminal that comes with Windows is described here.

1. Open the HyperTerminal.  
[Start] > [Programs] > [Accessories] > [Communications] > [HyperTerminal]  
The HyperTerminal program (Hyperterm.exe) is activated.
2. Make the setting for name, connection, and port.  
Select the COM port of the PC currently being used for the port setting.
3. Set the COM port of the PC and set the transmission parameters as follows:  
Baud rate: 2400 bps  
Character length: 8 bits  
Parity: none  
Stop bit: 1 bit
4. Make the settings in the properties dialog box.

[File] > [Properties] > [Settings]



[File] > [Properties] > [Settings] > [ASCII Setup]



---

**Note**

You can check the contents transmitted via HyperTerminal by enabling the “Echo typed characters locally (E)” option.

---

## 5. Command input

If a command is input, the corresponding response data is sent back.

Command input should be completed within 10 seconds.

Be sure to first set the meter to the On-line mode using the On-line/Off-line command.

---

**Note**

Windows<sup>®</sup> is a registered trademark of Microsoft Corporation.

---



#### **4 RS-232C communications**

##### **4.5 Communication example using the HyperTerminal**

# 5 Printer

This chapter explains the printer connection, the times printing takes place, and printing formats.

## 5.1 Connecting the printer

---

The following printers are compatible with D-52/53/54/55.

### Printers

- Citizen CBM-910-24RJ100-A (Normal paper)
  - Seiko DPU-H245AS-A03A (Heat-sensitive paper)
- Attach the printer cable to the printer output connector.

---

#### Note

Connect your printer only after turning OFF the power to the main unit of the meter.

---

---

#### Ref.

For the layout of the connector terminals for the printer output cable, refer to “7.9 Pin layout of special cables” page 207.

---

---

#### Note

When a printer is not connected, remove the printer cable from the meter and put the rubber cap securely over serial communication connector.

Be sure to use a cable that matches the printer.

---

## 5.2 Printer setting

---

Set up the printer using these settings:

- Printer output baud rate: 2400 bps
- Bit length: 8 bits
- Parity: none

### **Setting for a plain paper printer (CBM-910)**

Set DIP switch No. 6 to ON and No. 7 to OFF, and prepare the printer paper and ink ribbon. Keep the LF key held down. The printer prints only when the LF key is being pressed.

### **Setting for a thermal paper printer (DPU-H245AS)**

Prepare printer paper and turn ON the power switch with the FEED and CHARGE switches held down. Set the baud rate of the printer to the above value, referring to the instruction manual for the printer.

Start the function setting mode of the printer and change it to the above settings.

## 5.3 Printer output timing

---

The printer prints at the following times:

- When pressing the ENTER key after Auto Hold or while the instantaneous value is being displayed in the Measurement mode.
- When the manual data memory storage is performed in the Measurement mode.
- When pressing the ENTER key while in the Data Memory Call mode.
- When calibration or check is performed in the Calibration mode.
- When the ENTER key is pressed in the calibration history display.
- When test printing is selected while in the Maintenance mode.

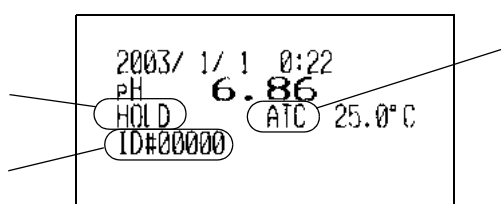
## 5.4 Printing format

---

The following are sample printouts.

### 5.4.1 When the ENTER key is pressed in the Measurement mode

#### pH Measurement mode



When the data is the data confirmed with Auto Hold, "HOLD" is shown. Nothing is displayed for the instantaneous value measurement.

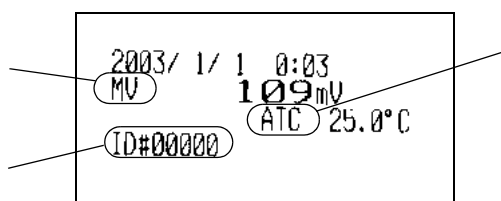
ID#: 5 digits

Temperature compensation setting

Manual mode: MTC

Auto mode: ATC

#### mV Measurement mode



REL is displayed during relative mV measurement.

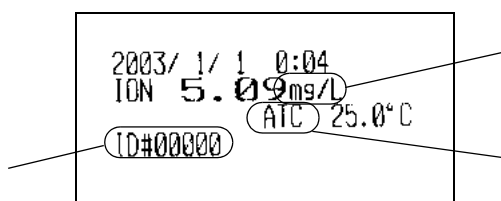
ID#: 5 digits

Temperature compensation setting

Manual mode: MTC

Auto mode: ATC

#### ION Measurement mode



ID#: 5 digits

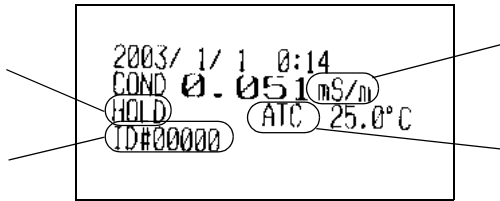
Unit: g/L, mg/L,  $\mu$ g/L, mol/L, mmol/L,  $\mu$ mol/L

Temperature compensation setting

Manual mode: MTC

Auto mode: ATC

## COND Measurement mode



When the data is the data confirmed with Auto Hold, "HOLD" is shown. Nothing is displayed for the instantaneous value measurement.

ID#: 5 digits

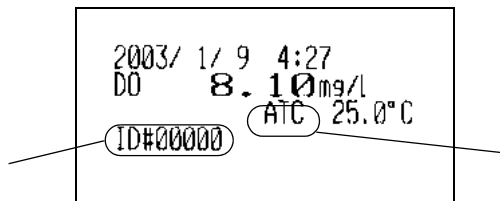
Unit: S/m, mS/m,  $\mu$ S/m, S/cm, mS/cm,  $\mu$ S/cm

Temperature compensation setting

Manual mode: MTC

Auto mode: ATC

## DO Measurement mode



ID#: 5 digits

Temperature compensation setting

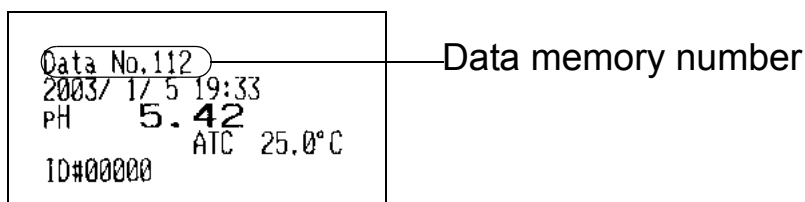
Manual mode: MTC

Auto mode: ATC

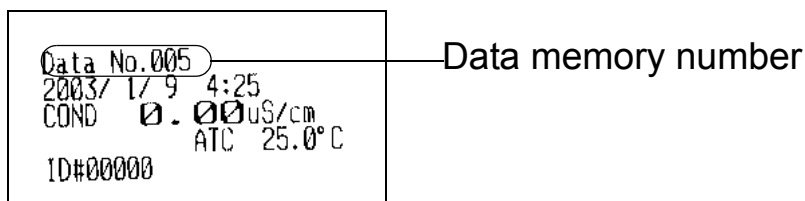
### 5.4.2 When the manual data memory storage is performed in the Measurement mode

The printer prints the data memory No. in the first line and the data in accordance with the format same with the one in “5.4.1 When the ENTER key is pressed in the Measurement mode” P.132.

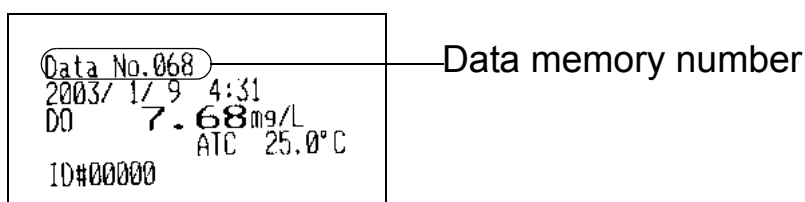
#### Example in the pH Measurement mode



#### Example in the COND Measurement mode



#### Example in the DO Measurement mode



### 5.4.3 When the ENTER key is pressed in the Data Memory Call screen

The format is the same as that described in “5.4.2 When the manual data memory storage is performed in the Measurement mode” page 134.

## 5.4.4 When calibration or check is performed in the Calibration mode

### pH calibration

```
2003/ 1/ 5 19:38  
PH 6.86  
CAL ATC 25.0°C  
**CALIBRATION OK**
```

When calibration is performed

```
2003/ 1/ 5 19:38  
PH 6.88  
Repeat. pH 0.00  
ATC 25.0°C
```

When pH repeatability is checked

```
2003/ 1/ 5 19:39  
CAL ERROR04  
ATC 25.0°C  
**ELECTRODE CHECK**
```

When an error has occurred

### ION

```
2003/ 1/ 3 5:29  
ION 677g/L  
CAL ATC 25.0°C  
**CALIBRATION OK**
```

When calibration is performed

### COND cell constant calibration

```
2003/ 1/ 9 4:33  
COND 1.408mS/cm  
CAL ATC 25.0°C  
CELL 0.936 * 1 cm-1
```

When calibration is performed

### DO atmospheric pressure calibration

```
2003/ 1/ 9 4:32  
CAL ATC 25.0°C  
**CALIBRATION OK**
```

When calibration is performed

```
2003/ 1/ 9 4:32  
CAL ERROR05  
ATC 25.0°C  
**ELECTRODE CHECK**
```

When an error has occurred



### DO standard solution calibration

```
2003/ 1/ 9 4:33  
DO      8.12mg/L  
CAL      ATC 25.0°C  
**CALIBRATION OK**
```

When calibration  
is performed

```
2003/ 1/ 9 4:33  
CAL ERROR05  
      ATC 25.0°C  
**ELECTRODE CHECK**
```

When an error  
has occurred

### 5.4.5 When the ENTER key is pressed in the calibration history display

#### pH calibration history (without check data)

Asymmetrical potential at calibration

Calibration data

```

CALIBRATION: BAD
Date ; 2003/ 1/ 1
mV Value ; -7mV
Slope
pH 6.86- 4.01 86.4%

CAL DATA
2003/ 1/ 1 0:19
pH 6.86 0mV
                ATC 25.0°C
2003/ 1/ 1 0:19
pH 4.01 146mV
                ATC 25.0°C
          
```

Electrode status:  
GOOD: good condition  
CHECK: Washing is needed.  
BAD: Replace

Sensitivity display  
Standard solution value is displayed.  
No calibration/1-point calibration: None  
2-point calibration: 1st item  
3-point calibration: 2nd item

#### pH calibration history (with check data)

Calibration data

```

CALIBRATION:GOOD
Date ; 2003/ 1/ 5
mV Value ; -7mV
Slope ;
PH 4.01- 6.86 98.4%
PH 6.86- 9.18 97.6%
Repeat. ; 0.00PH

CAL DATA
2003/ 1/ 5 19:51
PH 4.01 167mV
                ATC 25.0°C
2003/ 1/ 5 19:51
PH 6.86 1mV
                ATC 25.0°C
2003/ 1/ 5 19:52
PH 9.18 -133mV
                ATC 25.0°C
2003/ 1/ 5 19:52
PH 6.86 1mV
                ATC 25.0°C
          
```

Value of repeatability check

### Ion calibration history

	CALIBRATION: GOOD	GOOD: Calibration is performed
	Date ; 2003/ 1/ 3	
	mV Value ; 0mV	
	Slope ;	
	677 - 502 g/L 133mV	Sensitivity display Standard solution value is displayed.
Calibration data	CAL DATA	
	2003/ 1/ 3 5:29	
	677 g/L 48mV	
	ATC 25.0°C	
	2003/ 1/ 3 5:29	
	502 g/L 40mV	No calibration/1-point calibration: None
	ATC 25.0°C	2-point calibration: 1st item
		3-point calibration: 2nd item

### 5.4.6 Test printing format in the Maintenance mode

```
!"#$%&'()*+,-./0123
456789:;<=>?@ABCDEFGH
IJKLMNOPQRSTUVWXYZ[
¥]^_`abcdefghijklmnop
pqrstuvwxyz{|}
```

# 6 Maintenance and Troubleshooting

This chapter explains how to perform daily meter maintenance and how to deal with error messages. Daily maintenance is vital in assuring accurate measurement and preventing breakdowns before they occur. Maintenance of the electrodes is especially important; if ignored, various problems and erroneous measurements may result. This meter is equipped with a convenient error message function. If an error message is displayed, be sure to take appropriate action.

## 6.1 pH (ORP) electrode maintenance

---

Maintain your electrodes by referring to the following information or to the operation manuals for the electrodes.



### Injury warning

Glass fragments can cause injury. The outer tube of the electrode and the tip of the electrode are made of glass. Use care not to break them.

---

The following explanation is for pH electrodes (9621-10D) ORP electrodes should be cared for in the same manner.

### Maintenance after daily use

After taking measurements, wash the electrode using pure water (de-ionized water), wipe off the water from the electrode with filter paper or tissue paper, and store it with its cap on.

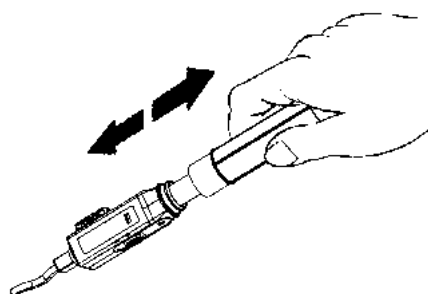
**Note**

The liquid junction may become clogged if the electrode is left in distilled water.

## Extended storage

When an electrode is not to be used for a long period of time, store the electrode after performing the following steps. Also, replace the reference solution every three to six months, using the method explained below.

1. Remove the electrode from the pH meter.
2. Remove the protective cap from the electrode.



### Chemical warning

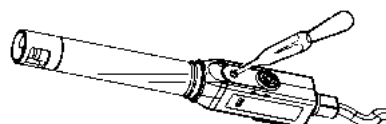
The liquid inside the electrode is highly concentrated potassium chloride (3.33 mol/L KCl).



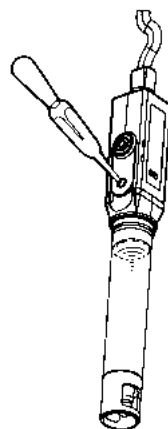
Caution

If the internal solution in the electrode comes in contact with your hands or skin, wash immediately with water. If the internal solution comes in contact with your eyes, flush immediately with large amounts of water and seek treatment by a physician.

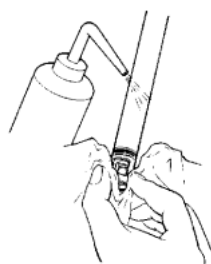
3. Open the internal solution filler port and use a syringe to remove the internal solution.



4. Fill the electrode with new internal solution (#300), until it nears the opening.



5. Wash the tip of the electrode well with pure (de-ionized) water and wipe it with filter paper or tissue paper.



6. If the liquid on the inside of the electrode cap has dried, wash the inside of the electrode cap with pure (de-ionized) water, and then, after shaking out the water, fill the cap with enough pure water to soak the sponge.

---

**Note**

If the solution inside the protective cap for the electrode has dried up and the electrode has not been used for an extended period of time, the response speed of the electrode may be slower (and its sensitivity lower) than before.

---

## Washing the electrodes

If the tip of the pH electrode is extremely dirty, the speed of its response may slow and it may cause errors in measurement. If the electrode is so dirty that it cannot be cleaned by rinsing with pure (de-ionized) water, wash the electrode using the most appropriate method below.

### General dirt & oily grime

Wipe the dirt/grime off using cotton gauze that contains a neutral detergent.



### Inorganic grime

Rinse using a hydrochloric acid solution or cleaning liquid (#220) of approximately 1 mol/L. Be sure not to soak the electrode in strong acid for a long period of time.



## 6.2 ION electrode maintenance

Refer to the electrode operation manual for how to take care of each kind of electrode.

### ION electrodes

Ion to be measured	Ion type	Slope ( * )	Measurement range	Electrode model	Compatible tip model	Reference solution
Potassium K <sup>+</sup>	+1	+58 mV	0.04 – 39,000 mg/L	6582 -10C	7682	3.33 mol/L NaCl
Calcium Ca <sup>2+</sup>	+2	+29 mV	0.4 – 40,080 mg/L	6583 -10C	7683	3.33 mol/L KCl (#300)
Chloride Cl <sup>-</sup>	-1	-59 mV	0.4 – 35,000 mg/L	6560 -10C	7660	1 mol/L KNO <sub>3</sub>
Fluoride F <sup>-</sup>	-1	-59 mV	0.02 – 19,000 mg/L	6561 -10C	7661	3.33 mol/L KCl (#300)
Nitrate NO <sub>3</sub> <sup>-</sup>	-1	-55 mV	0.06 – 62,000 mg/L	6581 -10C	7681	1 mol/L KCl
Ammonia NH <sub>3</sub>	+1	-59 mV	0.1 – 1,000 mg/L	5002 -10C		Included internal solution NH <sub>4</sub> Cl

\* Change in the electric potential of the electrode (25°C) when the ION concentration changes by a factor of 10.

**Note**

The above electrodes are subject to change without notice.

Maintenance of the ION electrodes listed in the above table is described on the next page.



## 6 Maintenance and Troubleshooting

### 6.2 ION electrode maintenance

#### Before using

Before using an electrode, condition the electrode according to the following table to prepare it for measurement.

ION electrode	Conditioning agent	Time
Cl <sup>-</sup> ION electrode	No conditioning	
F <sup>-</sup> ION electrode		
NO <sub>3</sub> <sup>-</sup> ION electrode	1 mol/L potassium nitrate solution (100 g/L KNO <sub>3</sub> )	Approx. 1 hr
K <sup>+</sup> ION electrode	0.1 mol/L potassium chloride solution (75 g/L KCl)	Approx. 12 hr
Ca <sup>2+</sup> ION electrode	Tap water	Approx. 3 hr
NH <sub>3</sub> ammonia electrode	No conditioning	

## Short-term storage

Immerse electrodes in the following solutions, when they are to be stored for up to one day and then reused.

ION electrode	Storage solution
Cl <sup>-</sup> ION electrode	de-ionized water
F <sup>-</sup> ION electrode	
NO <sub>3</sub> <sup>-</sup> ION electrode	1 mol/L potassium nitrate solution (100 g/L KNO <sub>3</sub> )
K <sup>+</sup> ION electrode	0.1 mol/L potassium chloride solution (75 g/L KCl)
Ca <sup>2+</sup> ION electrode	Tap water
NH <sub>3</sub> ammonia electrode	0.01 mol/L ammonium chloride solution

### 6.2.1 65XX-10C electrode maintenance

Refer to the electrode operation manuals for maintenance concerning other electrode models.

#### Long-term storage

1. Remove the tip electrode from the combined electrode and put on the rubber cap.
2. Put the electrode protective cap on. (Do not put water in the protective cap, and make sure it is dry.)
3. Store both the tip electrode and the combined electrode in a dry place.
4. To reuse the electrodes, start with the operations explained in the section entitled “Before using” page 144.

#### Daily maintenance

When an electrode has not been used for a long period of time, some of the sample may have entered the reference solution (outer tube) or the reference solution may have become weak. For this reason, perform the following operations from once a week to once a month to replace the internal solution within the reference electrode (outer tube).

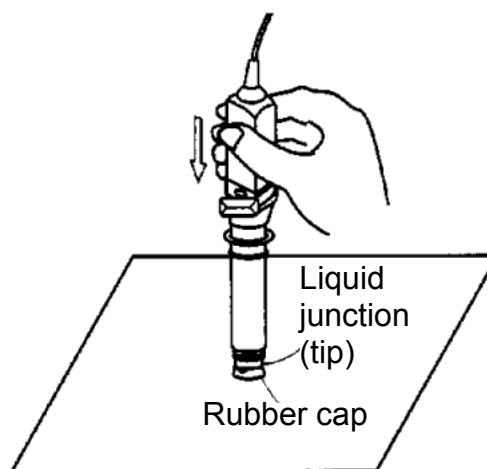
1. Open the internal solution filler port by removing the rubber stopper, turn the electrode upside down, and use a syringe to remove the reference solution.
2. Use the syringe to fill the electrode with the specified reference solution.

Ideally, a tiny amount of the reference solution should flow from the tip of the electrode. If the amount of liquid flowing out is extremely small, however, the electric potential of the reference electrode will not stabilize and will be affected by the stirrer. In such cases, perform the

following operations to make the reference solution seep out from the liquid junction.

### Reference solution outflow

1. Remove the protective tube from the combined electrode so that the rubber cap is mounted on the tip-type ION electrode part.
2. Remove the rubber stopper from the reference solution filler port on the top part of the electrode.
3. Stand the electrode vertically on a desk or other horizontal surface, with the bottom of the electrode (the side with the rubber cap) facing down. Push the electrode down two or three times, to make the reference solution seep out through the liquid junction.



### Filling internal solution (inner tube)

The inner tube of the electrode is of an air-tight construction that allows almost no outflow. Replace the internal solution (inner tube), however, if the electrode has been used for a long period of time and only half or less of the internal solution remains.

(The filling frequency for the internal solution varies depending on usage and storage conditions, but under normal use it is approximately once a year.)

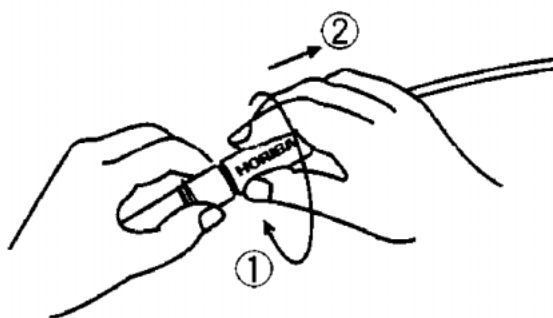
**Note**

To fill an electrode with internal solution (inner tube), the electrode must be disassembled. Use sufficient care during disassembly.

Items necessary when replacing internal solution are: a syringe, #330 (gel) reference solution, and the reference solution specified for the particular electrode.

**Filling the electrode: disassembly procedure**

1. Remove the protective tube and tip-type ION electrode from the combined electrode and put the rubber cap on the tip-type electrode part.
2. Remove the rubber stopper from the reference solution (outer tube) filler port, and take out the internal solution using a syringe.
3. Twist the electrode cap by hand and move it approximately 5 to 10 centimeters toward the electrode connector.

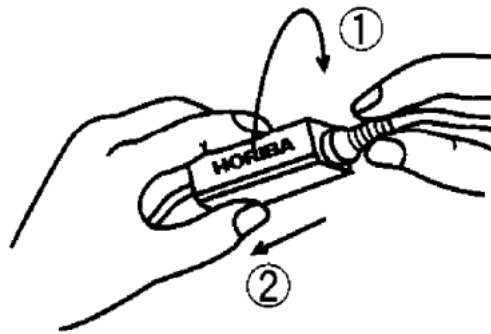


4. Remove the internal body of the electrode by holding the electrode cap by hand, and then pushing the electrode while it is standing vertically on a desk or other horizontal surface.
5. Move the silicon tube from the internal body downward, to expose the internal solution filler port (inner tube).
6. Put the gel-form internal solution (#330) in through the filler port using a syringe and fill the

electrode until the internal solution nears the filler port.

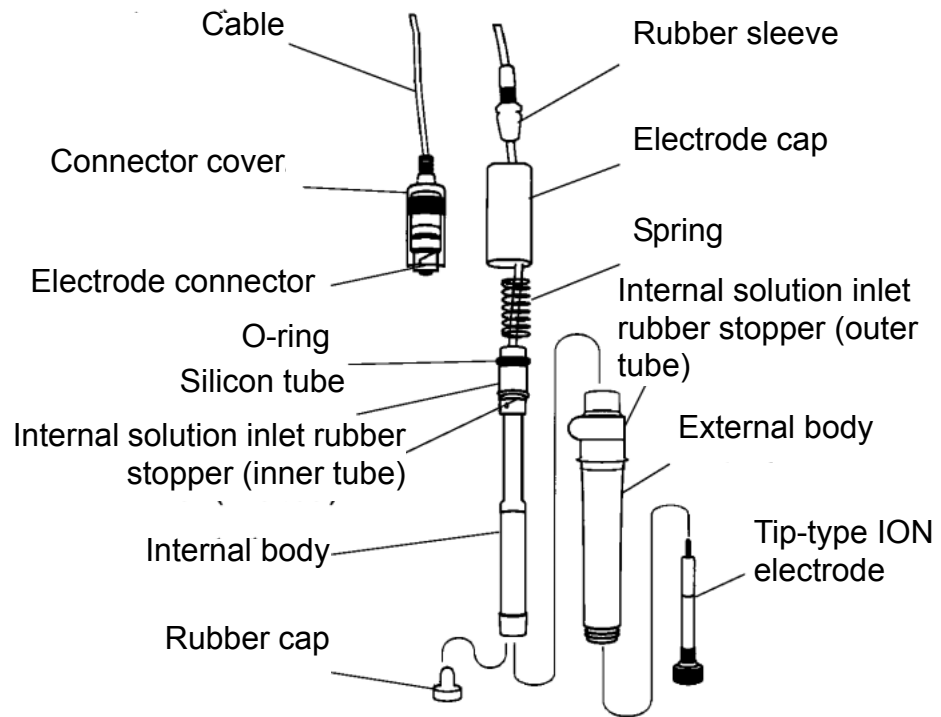
### Filling the electrode: assembly procedure

1. Return the silicon tube to its original position and seal the internal solution filler port (inner tube). (Make sure that the filler port is completely sealed.)
2. If the bodies (internal and external) or the liquid junction (tip) are dirty, wash them with pure (de-ionized) water.
3. Insert the internal body into the external body. (Make sure that the O-ring is properly in place.)
4. Return the spring to the top of the internal body.
5. Hold the rubber sleeve in place by hand, then twist the electrode protective cap 90° and fit the rubber sleeve into the electrode protective cap.



6. Maneuver the parts so that the “HORIBA” logo faces the same direction as the reference solution filler port (outer tube), then put the cap on the external body.
7. Twist the rubber sleeve 90° and hold it in place.
8. Use the syringe to fill the electrode with the specified reference solution.

9. Make the internal solution seep out from the liquid junction in accordance with the section entitled “ Daily maintenance” page 146.
10. Store the electrode in accordance with the section entitled “ Short-term storage” page 145.



## 6.3 Conductivity electrode maintenance

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Refer to the electrode operation manuals for how to maintain each electrode.

### **Long-term storage**

When an electrode will not be used for a long period of time, store it after performing the following procedure.

Also, perform maintenance on the electrode every three to six months.

- 1.** Remove the electrode from the meter.
- 2.** Use pure (de-ionized) water to wash away any sample solution that may have adhered to the electrode.
- 3.** Wash the inside of the electrode protective cap with pure (ion exchange) water, then, after shaking out the water, fill the cap with enough pure (de-ionized) water to soak the sponge.
- 4.** Place the electrode protective cap on the electrode.



## 6.4 Dissolved oxygen electrode maintenance

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Refer to the electrode operation manuals for how to maintain each electrode.

### 6.4.1 Field-use electrode

#### Maintenance after daily use

1. Wash the electrode well with tap water.



2. Store the DO tip by immersing it in tap water.

**Note**

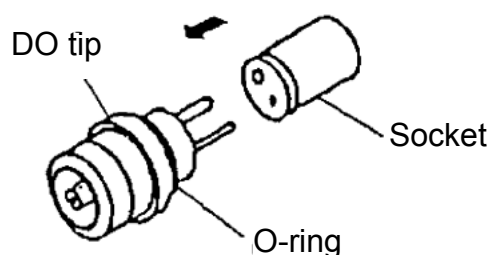
---

Leave the electrode connector attached to the pH meter.

---

## Long-term storage

1. Remove the electrode from the pH meter.
2. Wash the electrode well with pure (de-ionized) water, and then remove the water drops using cotton gauze.
3. Remove the DO tip from the holder.
4. Place the socket over the DO tip, and then store it by placing it in its original packaging and sealing it air-tight.



## Cleaning electrodes

If the electrode membrane is dirty, gently wipe it with soft tissue paper or cotton gauze. Be careful not to push on the membrane with too much force.

**Note**

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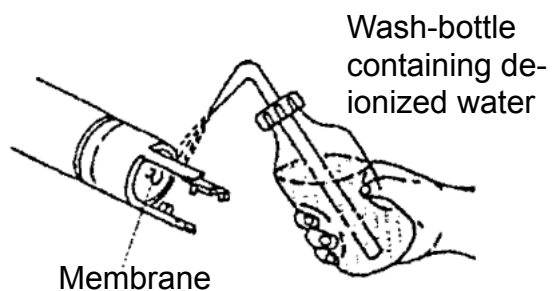
Use caution not to damage the DO tip membrane.

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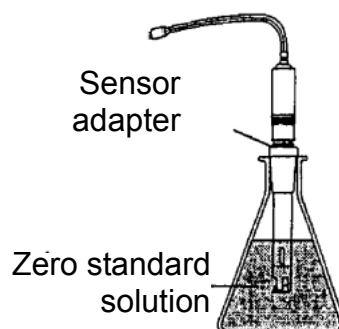
## 6.4.2 Laboratory-use electrode

### Maintenance after daily use

1. Wash the electrode well with pure (de-ionized) water.



2. Store the DO tip by immersing it in zero standard solution.

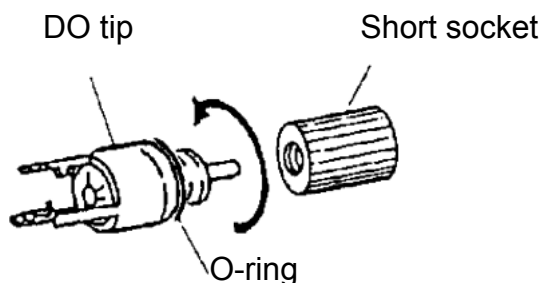


**Note**

Leave the electrode connector attached to the pH meter.

## Long-term storage

1. Remove the electrode from the pH meter.
2. Wash the electrode well with pure (de-ionized) water, and then remove the water drops using cotton gauze.
3. Remove the DO tip from the electrode body.
4. Push the socket onto the DO tip, and then store it by placing it in its original packaging and sealing it air-tight.



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### Note

Be careful not to damage the DO tip membrane. When using a neutral detergent for cleaning, be careful not to allow the detergent to come in contact with the membrane.

When conducting air calibration after the electrode has been stored, first connect the electrode to the main unit of the pH meter and allow it to stand in the open air for two hours prior to conducting the calibration.

---

## Cleaning electrodes

Each time a different solution is to be measured, rinse the electrode with pure (de-ionized) water, and then wipe off the water drops using clean filter paper or cotton gauze.

## 6.5 Troubleshooting

The meter is equipped with a simply error-message function to notify the operator that an operation error or problem with the equipment has occurred. Errors or other problems that occur while in the Measurement mode are announced by an error No. appearing in the lower left-hand corner of the display.

### 6.5.1 Error message chart

ERR No.	Message	Explanation
01	Memory error	Data cannot be read from or written to the internal memory.
02	Battery voltage low	The battery voltage is low.
03	Electrode stability error	The electric potential did not stabilize within three minutes.
04	Asymmetric potential error	pH: The asymmetric potential of the electrode is 45 mV or more.
05	Electrode sensitivity error	pH: The electrode sensitivity is either 105% or more or 85% or less than the theoretical sensitivity. DO: The electrode sensitivity is out of the standard.
06	Max. calibration points exceeded	pH: No more than three points can be calibrated.
07	Cannot identify standard solution	pH: The pH meter cannot identify the standard buffer.
08	Calibration cycle error	pH: Exceeds the calibration cycle setting.
09	Printer error	There is a problem with the printer.
10	Data memory over	The number of data items has exceeded the limit of the memory.
11	Cell constant out of range	COND: Cell constant is out of automatic calculation range.

## ERR No. 01 Memory error

### Explanation

Data cannot be read from or written to the internal memory.

Cause	How to solve problem
The pH meter does not start operating correctly even after the power is turned ON.	Take the battery from the pH meter, and disconnect the AC adapter. Then press the ON/OFF key for about 10 seconds.
The internal IC is defective.	Seek repairs at your nearest retail outlet or HORIBA service station.

## ERR No. 02 Battery voltage low

### Explanation

The battery has insufficient voltage.

Cause	How to solve problem
The battery voltage is low. (Battery voltage: 2.2V or less)	Replace the dry-cell battery.

---

#### Note

The measured value cannot be guaranteed when ERR No. 02 is displayed.

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**ERR No.03 Electrode stability error****Explanation**

The electric potential did not stabilize within three minutes.

Cause	How to solve problem
This is caused by the sample solution (when the sample solution is pure water or another solution with low conductivity or the pH concentration or temperature change).	Press the MEAS key again while "HOLD" is either blinking or steadily lit in the display, to measure the sample using instantaneous value measurement.
The electrode is dirty.	Wash the electrode.
The electrode is cracked.	Replace the electrode.
The responsive glass membrane of the electrode has been dry for a long time.	Soak the membrane (on the electrode) in pure (de-ionized) water for 24 hours.
The temperature of the sample solution is fluctuating.	Measure after the sample solution temperature stabilizes.

## ERR No.04 Asymmetric potential error

### Explanation

The asymmetric potential of the electrode is 45 mV or more.

Cause	How to solve problem
The electrode is dirty.	Wash the electrode.
The electrode is cracked.	Replace the electrode.
The reference solution concentration is fluctuating.	Replace the internal solution in the reference electrode.
The electrode is not connected correctly.	Connect the electrode correctly.
The electrode is not submerged deeply enough to cover the liquid junction (tip).	Immerse the electrode in the sample at least three centimeters deep.
There is problem with the standard solution.	Prepare new standard solution.



**ERR No.05 Electrode sensitivity error (pH)****Explanation**

The electrode sensitivity is either 105% or more or 85% or less than the theoretical sensitivity.

Cause	How to solve problem
The electrode is dirty.	Wash the electrode.
The electrode is cracked.	Replace the electrode.
Calibration was not performed correctly.	Redo the calibration correctly.
There is a problem with the standard solution.	Use fresh standard solution.
The electrode is not connected correctly.	Connect the electrode correctly.
Electrode is not submerged deeply enough to cover reference junction.	Immerse the electrode in the sample at least three centimeters deep.

## ERR No.05 Electrode sensitivity error (DO)

### Explanation

If there was something wrong with the DO calibration, re-calibrate after taking the appropriate measures listed below.

Cause	How to solve problem
The settings (temperature, correction of salinity concentration, or air-pressure correction) are wrong.	Reconfirm each setting (temperature, correction of salinity concentration, and air-pressure correction).
There is liquid on the DO tip membrane. (when conducting air calibration)	Let the electrode sit until the liquid evaporates or remove the liquid using soft tissue paper, making sure not to scratch the membrane.
There is something wrong with the standard solution. (when conducting standard solution calibration)	Prepare new zero and span standard solutions.
The stirring is inappropriate.	Stir the solution appropriately (at a constant speed, between 1000 and 1500 rpm). (Make sure the stirrer does not emit heat.)
The electrode is defective.	If the DO tip is dirty, clean it. If the DO tip membrane is damaged or the DO tip is worn out, replace it.

## ERR No.06 Max. calibration points exceeded

### Explanation

Calibration was performed on a fourth calibration point.

Cause	How to solve problem
Calibration was performed on a fourth calibration point.	Limit the number of calibration points to three. This error message is cleared by setting the pH meter to Measurement mode.

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#### Note

This error does not affect calibration data obtained from previous three calibration points.

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#### Ref.

Refer to “ Standard solution calibration” page 27.

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## ERR No.07 Cannot identify standard solution

### Explanation

If the automatic standard-solution identification function of the meter does not work, recalibrate the meter after performing the appropriate measures below.

Cause	How to solve problem
There is a problem with the standard solution.	Prepare new standard solution.
There is a problem with the standard solution setting.	Check the NIST or US standards settings and the kind of standard solution used for calibration, and make sure they match.
The responsive membrane is dry or dirty.	Measure after washing the responsive membrane and soaking it in pure (de-ionized) water for 24 hours.
The reference solution is contaminated.	Replace the reference solution with new solution.
The responsive membrane is damaged or worn out.	Replace the electrode.

## ERR No.08 Calibration cycle error

### Explanation

This error appears when the number of measurements set for the calibration cycle has been exceeded since the last calibration was conducted.

Calibrate again.

## ERR No.09 Printer error

### Explanation

If a problem occurs with the printer, turn OFF the power to the meter, perform the appropriate measure below, and turn the power to the meter back ON.

Cause	How to solve problem
The printer paper is jammed.	Remove the jammed paper.
There is no printer paper.	Load the printer with paper.
There is a problem with the printer connection.	Reconnect the printer after making sure there is nothing wrong with the connector parts.
The printer is defective.	Replace the printer.

## ERR No.10 Data memory over

### Explanation

The number of data items has exceeded the limit of the memory.

Cause	How to solve problem
Memory over	Delete data stored in the memory after confirming their contents.

## ERR No.11 Cell constant out of range

### Explanation

The cell constant is out of the range of 0.7 to 1.3. Delete data stored in the memory after confirming their contents.

Cause	How to solve problem
COND electrode is at the end of its useful life.	Replace the electrode.
Improper standard solution	Prepare new standard solution.

### 6.5.2 More troubleshooting

This section explains how to respond to various symptoms of trouble that are not indicated by an error number.

#### Nothing shows up on the display when the power is turned ON

Cause	How to solve problem
No batteries	Place batteries in the meter.
The batteries are loaded with the poles reversed.	Re-insert the batteries with the poles correctly oriented.
The battery voltage is low.	Remove the old batteries and correctly insert new dry-cell batteries. Or connect the unit to the optional AC adapter.

#### The indicated value fluctuates

##### When there is a problem with the electrode...

Cause	How to solve problem
The responsive membrane is dry or dirty.	Wash the responsive membrane.
The responsive membrane is damaged or worn out.	Replace the electrode.
There are air bubbles on the electrode.	Shake the electrode to remove the air bubbles.

Cause	How to solve problem
There is no reference solution remaining.	Fill the electrode with new reference solution, as noted in the electrode operation manual.
The wrong reference solution is being used.	Use the correct reference solution.

**When there is a problem with the main unit of the pH meter...**

Cause	How to solve problem
There is a motor or other device causing electrical interference.	Move the meter to a place where it is not subject to dielectric effects. Be sure to ground devices that are using commercial electricity.
The electrode is not connected correctly.	Connect the electrode correctly.

**When there is a problem with the sample solution...**

Cause	How to solve problem
The liquid junction is not immersed in the sample solution.	Immerse the electrode in the sample solution up until the liquid junction or deeper.
Some effects of the sample	Determine if this is the cause by measuring with a stable standard solution.



**The response is slow**

Cause	How to solve problem
Some effects of the sample	Response time may slow down, depending on the properties of the sample solution.
The electrode is dry or dirty.	Wash the responsive membrane.
The electrode is cracked or worn out.	Replace the electrode.
There is a problem with the reference solution.	Fill the electrode with new reference solution, as noted in the electrode instruction manual.

**The indicated value does not change, or there is absolutely no response**

Cause	How to solve problem
The key-lock function is ON.	Turn the power OFF, and then turn it back ON again.
The system is locked.	Turn the power OFF, and then turn it back ON again.
The electrode connector is not attached correctly.	Attach the electrode connector correctly.
The electrode is defective. (the responsive membrane is cracked.)	Replace the electrode.
pH meter is defective.	Contact your local HORIBA distributor.

## The measured value is blinking

The pH value exceeds the measurement range (when pH value is displayed).

Measurement range: pH 0.00 – pH 14.00

The mV value exceeds the measurement parameters (when mV value is displayed).

Display range:  $\pm 1999$  mV

The ION measurement value is out of the range (in the ION mode).

Display range: 99.9 or above

The measured conductivity value exceeds the measurement parameters (when conductivity value is displayed).

Display range: 0.00 – 19.99 (when cell constant is  $100 \text{ m}^{-1}$ )

The measured DO value exceeds the measurement parameters (when DO value is displayed).

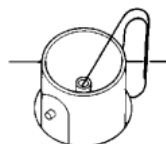
Display range: 0.00 – 19.99

Cause	How to solve problem
The sample solution is inappropriate.	Change to a sample solution with properties within the measurement range.
The liquid junction is not immersed in the sample solution.	Immerse the electrode in the sample solution all the way until the liquid junction or deeper.
The electrode cable has been severed.	Replace the electrode.
The main body of the pH meter is defective.	Check the point described below.
The meter has not been calibrated or it has been calibrated incorrectly.	Calibrate the meter correctly.

### Check this point

As shown in the diagram, use a jumper wire or bent paper clip to short the meter by touching both the center pin and some metal part in the electrode connector.

If the flashing measured value disappears when this is done, the meter is normal.



### CLR is flashing (during ION measurement)

Concentration cannot be measured correctly.

Cause	How to solve problem
The pH meter is in default (initialized) status.	Calibrate the pH meter.

**The temperature display is blinking.**

**The temperature display does not change from 25°C.**

The temperature measurement exceeds the measurement range.

Measurement range: -10 – 100.0°C

Cause	How to solve problem
The temperature of the sample solution exceeds the measurement range.	Check the temperature of the sample solution and change to a sample solution that has a temperature within the measurement range.
The thermistor connection within the electrode is severed or shorted.	Measure the resistance of the temperature sensor connector. If it is 50 kΩ or more at room temperature, replace the electrode.
The electrode connector is not attached properly.	Attach the electrode connector properly, so that the O-ring on the temperature connector disappears from sight.
The main unit of the meter may be defective.	In Temperature Display Calibration mode (See “ Temperature zero adjustment [item No. 02]” page 93), check whether or not the “Minus” display appears, regardless of whether or not there is a temperature connector.
There is a problem with the setting for the temperature display calibration mode (see page 93).	Initialize the settings (see page 97).

### Measurements are not repeatable

Cause	How to solve problem
Some effects of the sample solution	The pH or other properties of the sample solution may have changed over time, making repeatability poor.
The responsive membrane is dry or dirty.	Wash the responsive membrane.
There is not enough reference solution or it is dirty.	Replace the reference solution with new solution.
The responsive membrane is cracked or worn out.	Replace the electrode.

### When the printer will not print even though it is connected

Check the following points:

- Is the printer turned ON?
- Has a printer error occurred?
- Is there printing paper? Has the paper jammed?
- When running a test print according to the manual, does it print out correctly?

# 7 Reference

This chapter provides a simple compilation of information for those who would like to know about the functions of the main unit of the meter and other measurement principles in greater detail.

It also serves as a reference for spare and optional parts.

## 7.1 pH measurement

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### pH measurement and temperature

The temperature of the solution being inspected is an important parameter in the accurate measurement of pH. There are many possible sources of errors during measurement, such as the state of the solution junction potential, asymmetric potential, and reference solution pH concentration, but all of these items contain factors that change with temperature. The best way to minimize these potential causes of errors is to keep the temperature of the pH standard solution uniform at the time of calibration.

### Liquid junction potential

“Liquid junction potential” is the electric potential that occurs to a greater or lesser degree at the liquid junction. The size of the electric potential differs depending on the type of solution, the temperature of the solution, and the structure of the liquid junction.

When solutions of different compositions come in contact, ION diffusion occurs on the contact surface between the two solutions. The ions are of various sizes, so a difference occurs in the diffusion transfer speed.

As diffusion proceeds, a difference in charges occurs on the contact surface of the two solutions, giving rise to a difference in potential. This potential works to reduce the transfer speed of fast ions and increase the speed of slow ions, ultimately achieving a state of equilibrium when the transfer speed of the positive and negative ions on the contact surface of the two solutions is equal. In this state of equilibrium, the potential at the contact surface between the two solutions is called the “liquid junction potential.” A large liquid junction potential means measurements will be very inaccurate.

## **Asymmetric potential**

The glass electrode is immersed in a pH 7 reference solution. When the electrode is immersed in the pH 7 solution, both the internal and external sides of the electrode membrane are supposed to take on a pH of 7, making the potential 0. In actuality, however, a potential does occur. This potential is called “asymmetric potential.” The size of the asymmetric potential differs depending on any stress that may have occurred during the processing of the glass and the shape and compositions of the glass. Asymmetric potential also changes depending on the degree of contamination of the reference solution and the state of the glass membrane. Also, if the electrode membrane dries out, a large asymmetric potential will occur, giving rise to measurement errors.



#### Temperature compensation

The electromotive force generated by the glass electrode changes depending on the temperature of the solution. “Temperature compensation” is used to compensate for the change in electromotive forces caused by temperature. There is absolutely no relation between the change in pH caused by the temperature of the solution and temperature compensation. This is often misunderstood. When pH is to be measured, the temperature of the solution when the pH is measured must be recorded along with that pH value, even if a meter that has automatic temperature compensation is used. If the solution temperature is not recorded, the results of the pH measurement are relatively meaningless.

#### Types of pH standard solutions

When measuring pH, the pH meter must be calibrated using a standard solution. There are several kinds of standard solutions. For normal measurement, three standard solutions—with a pH of 4, 7, and 9—are sufficient to accurately calibrate the meter.

- pH 1.68 standard solution: Oxalate  
0.05 mol/L tetra-potassium oxalate aqueous solution
- pH 4.00 standard solution: Phthalate  
0.05 mol/L potassium hydrogen phthalate aqueous solution
- pH 6.86 standard solution: Neutral phosphate  
0.025 mol/L potassium dihydrogen phosphate, 0.025 mol/L sodium dihydrogenphosphate aqueous solution
- pH 9.18 standard solution: Borate  
0.01 mol/L tetra-sodium boric acid (boric sand) aqueous solution
- pH 12.45 standard solution: Saturated calcium hydroxide solution

**pH values of pH standard solutions at various temperatures (NIST (former NBS) settings)**

Temp. (°C)	pH 1.68 standard solution Oxalate	pH 4.00 standard solution Phthalate	pH 6.86 standard solution Neutral phosphate	pH 9.18 standard solution Borate	pH 12.45 standard solution Saturated calcium hydroxide solution
0	1.666	4.003	6.984	9.464	13.423
5	1.668	3.999	6.951	9.395	13.207
10	1.670	3.998	6.923	9.332	13.003
15	1.672	3.999	6.900	9.276	12.810
20	1.675	4.002	6.881	9.225	12.627
25	1.679	4.008	6.865	9.180	12.454
30	1.683	4.015	6.853	9.139	12.289
35	1.688	4.024	6.844	9.102	12.133
38	1.691	4.030	6.840	9.081	12.043
40	1.694	4.035	6.838	9.068	11.984
45	1.700	4.047	6.834	9.038	11.841

**Note**

When the standard solutions use US settings, the pH 7 values shown in the following table are different and pH 9 becomes pH 10 (see next page).

**pH values of pH 7 and pH 10 standard solutions  
at various temperatures (US-standard settings)**

Temp. (°C)	pH 7 standard solution  Neutral phosphate	pH 10 standard solution  Carbonate
0	7.119	10.318
5	7.086	10.245
10	7.058	10.178
15	7.035	10.117
20	7.015	10.061
25	7.000	10.011
30	6.988	9.965
35	6.979	9.925
40	6.973	9.888
45	6.969	9.856

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**Note**

Calibration is performed using Nernst's equation with the above values.

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## Using standard solutions

Standard solutions are used to calibrate the scale of the pH meter employed to measure the unknown pH of a solution. Standard solutions of pH 4, 7, and 9 are used in combination according to the particular conditions of the solution that is to be inspected.

### **When the approximate pH value is desired (1-point calibration)**

Use the pH 7 standard solution or a standard solution that approximates the pH value of the solution that is to be inspected.

### **When it is known beforehand whether the test solution is acidic or alkaline (2-point calibration)**

Acidic: Use the pH 4 and 7 standard solutions.

Alkaline: Use the pH 7 and 9 standard solutions.

### **When an unknown solution is to be inspected (3-point calibration)**

Use the pH 4, 7, and 9 standard solutions.

### **Other**

When finding the pH of other solutions, perform 2-point or 3-point calibration using pH 2, 4, 7, 9, or 12 standard solutions randomly, then measure the test solution.

## 7.2 mV (oxidation-reduction potential [ORP]) measurement

### ORP principles

ORP is an abbreviation for oxidation-reduction potential. ORP is the energy level (potential) determined according to the state of equilibrium between the oxidants ( $M^{Z+}$ ) and reductants ( $M^{(Z-n)+}$ ) that coexist within a solution.

For one type of equilibrium in a solution:



If only  $M^{(Z-n)+}$  exists within a solution, a metal electrode (platinum, gold, etc.) and a reference electrode are inserted into the solution, forming the ORP measuring system shown in Fig. 1. Measuring the potential (ORP) that exists between the two electrodes enables the potential to generally be expressed by the following equation.

$$E = E_0 - \frac{RT}{nF} \ln \frac{a_{M^{(Z-n)+}}}{a_{M^{Z+}}} \quad \dots\dots$$

E: Electric potential  $E_0$ : Coefficient R: Gas coefficient

T: Absolute temperature n: Electron count

F: Faraday constant a: Activity

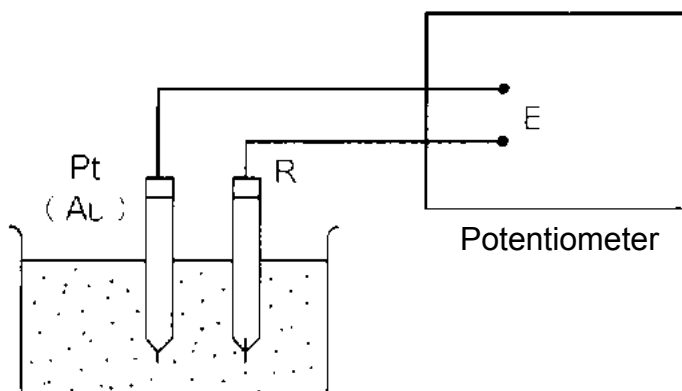


Fig. 1 ORP measuring system

## 7.2 mV (oxidation-reduction potential [ORP]) measurement

For example, for a solution in which trivalent iron ions coexist with bivalent iron ions, equations (1) and (2) would be as follows.



$$E = E_0 - \frac{RT}{F} \ln \frac{a_{\text{Fe}^{2+}}}{a_{\text{Fe}^{3+}}} \quad \text{.....} \quad (2)$$

When only one type of equilibrium state (1) exists in the solution, the ORP of the solution can only be determined by equation (2). What is important here is that ORP is determined by the ratio of activity between the oxidant ( $\text{Fe}^{3+}$ ) and the reductant ( $\text{Fe}^{2+}$ ) (using the equation  $a_{\text{Fe}^{2+}}/a_{\text{Fe}^{3+}}$ ). In actuality, however, many kinds of states of equilibrium exist simultaneously between various kinds of ions, in most solutions. This means that under actual conditions, ORP cannot be expressed using the simple equation shown above and that the physical and chemical significance with respect to the solution is not very clear.

In this respect, the value of ORP must be understood to be only one indicator of the property of a solution. The measurement of ORP is widely used, however, as an important index in the analysis of solutions (potentiometric titration) and in the disposal and treatment of solutions.

Recently, various claims have appeared regarding this matter. For example, that a high degree of ORP is effective in sterilization, or that drinking water that has a low ORP reduces the chance of illness by reacting with the activated oxygen in the cells of the body. ORP is used as an index for alkaline drinking water.

### Standard electrode (reference electrode) types and ORP

The ORP of a solution that is obtained through measurement is a value that corresponds to the reference electrode employed. If different kinds of reference electrodes are used for measurement, the ORP value of the same solution may appear to be different.

HORIBA uses Ag/AgCl with 3.33 mol/L KCl as the reference solution for reference electrodes. According to general technical literature, standard hydrogen electrodes (N.H.E.) are often used as the standard electrode. The relationship between N.H.E. and the ORP that is measured using an Ag/AgCl with 3.33 mol/L KCl electrode is expressed by the following equation.

$$E_{\text{N.H.E.}} = E + 206 - 0.7(t - 25) \text{ mV} \quad t = 0 - 60^\circ\text{C}$$

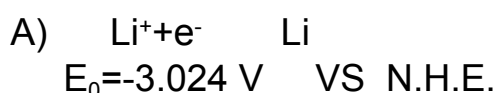
$E_{\text{N.H.E.}}$ : Measured ORP value using N.H.E. as the reference electrode

$E$ : Measured ORP value using Ag/AgCl with 3.33 mol/L

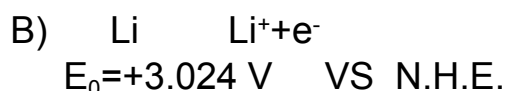
KCl as the reference electrode

### Potential sign

Standard ORP is expressed in the following way, in literature related to electrochemistry and analytical chemistry.



However, in some literature, the “+” and “-” signs are reversed.



In expressions like B, above, the reaction is just reversed and there is no essential difference. But this kind of expression does invite confusion. The majority of the world is consistent in its use of the signs as they are used in A, above. For this reason, HORIBA also uses signs concerning ORP that are consistent with A.

## 7.2 mV (oxidation-reduction potential [ORP]) measurement

**ORP standard solution**

There are two kinds of standards substances. Under normal circumstances, it is sufficient to use only that type of substance which is closest to the measured value.

**Indicated value of ORP standard solution at various temperatures (mV)**

temp. (°C)	160 - 22 Phthalic-acid chloride + quinhydrone	160 - 51 Neutral phosphate + quinhydrone
5	+274.2	+111.9
10	+270.9	+106.9
15	+266.8	+101.0
20	+262.5	+95.0
25	+257.6	+89.0
30	+253.5	+82.7
35	+248.6	+76.2
40	+243.6	+69.0



## Operation check using standard solution

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**Note**

Standard solution is not used only for the calibration of the meter, but to confirm whether or not the condition of electrodes is good.

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- 1.** Add 250 mL pure (de-ionized) water to one packet of any of the previously listed standard solutions and mix well. (When mixing, the excess quinhydrone [a black powder] will float to the surface of the solution.)
- 2.** Immerse a washed and dried ORP electrode in the ORP standard solution and measure the mV value.
- 3.** If the electrode and the meter itself are working correctly, numerical values within  $\pm 15$  mV of those listed in Table 1 should be obtained.
- 4.** If measurements falling within 15 mV of the values listed above are not obtained using this method, measure the solution again after replacing the reference electrode internal solution and removing any dirt from the surface of the metal electrode by moistening a cotton swab with alcohol or a neutral cleaning agent and lightly rubbing the electrode or by soaking the electrode in diluted nitric acid (1:1 nitric acid).
- 5.** If measurements within 15 mV of the values are still not obtained after re-measuring, the reference electrode or the meter may be faulty. Either replace the electrode or have the meter inspected.

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**Note**

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If the prepared ORP standard solution is allowed to stand in open air for one hour or more, it may undergo transformation. For this reason prepared ORP standard solution cannot be stored.

When measuring a solution that has low concentrations of oxidants and reductants after conducting an operational check using a standard substance, the measured values may not stabilize or the results of measurement might not be repeatable. If this is the case, use the meter after immersing the electrodes in the solution again and mixing it thoroughly.

---

### **Precautions when measuring actual samples**

- Note that when measuring the ORP of a solution that has extremely low concentrations of oxidants and reductants (such as tap water, well water, or water treated with purifying equipment), there may be less responsiveness, repeatability, and stability, in general.
- When alkaline water is allowed to stand, its ORP undergoes considerable changes. Always measure alkaline ION water promptly.

## 7.3 Ion measurement

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### Ion concentration measurement

When certain ions exist within the solution that is to be measured, the responsive ION electrode membrane generates an electric potential corresponding to the concentration of the ions. The potential that is generated is measured by the ION meter, using the reference electrode as the standard. With ION electrodes, the measured potential and the logarithm of the ION activity within the solution being measured are generally proportional to each other and are expressed in the following way:

$$E = E_0 + (2.303RT/nF) \log C$$

E: Measured electric potential (V)

E<sub>0</sub>: Standard potential (V), determined according to the system. This includes the standard potential of the reference electrode and the liquid junction potential.

F: Faraday constant (96,480 Cmol<sup>-1</sup>)

R: General gas constant (8.314 JK<sup>-1</sup>mol<sup>-1</sup>)

T: Absolute temperature (K)

n: ION charge

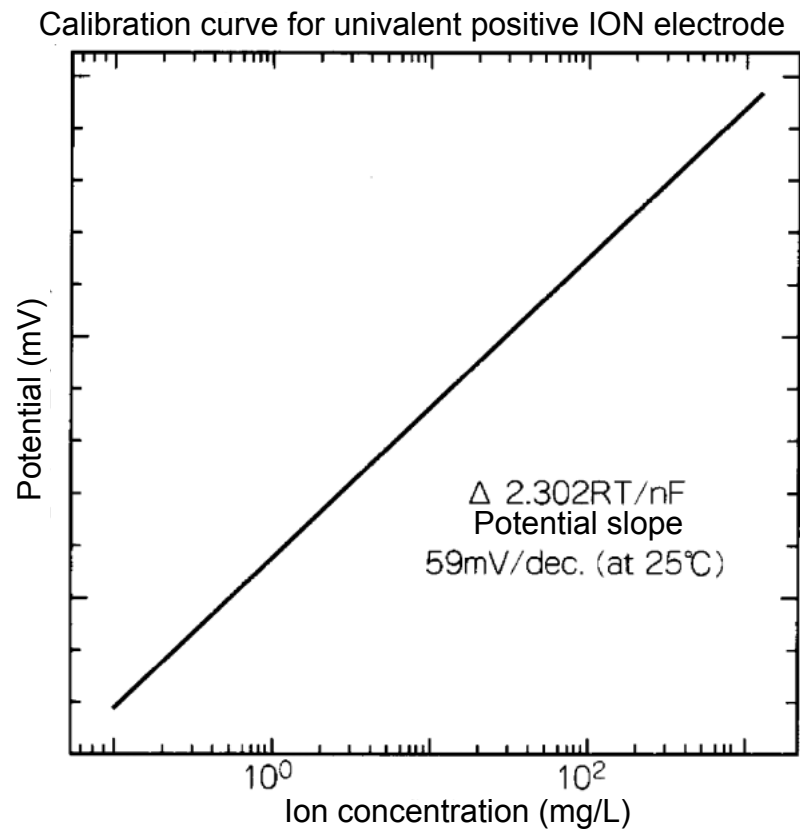
: Activity coefficient

C: ION concentration (mol/L)

The above formula is called “Nernst’s equation” and is the basis for measuring ION concentration using an ION electrode.

The part of Nernst's equation that reads “2.303 RT/nF” is the change in potential generated when the ION concentration changes by a factor of 10. This change in potential is called the potential slope, incline, slope, or Nernst's factor. If the above equation is adhered to when calibrating with standard solution and determining the value of the potential slope and E<sub>0</sub>, finding the potential E of the ION electrode inside the solution being measured will enable the ION concentration to be determined.

When actual measurement is performed, the ION electrode measures the ION concentration, so a linear relationship forms between the value of the ION concentration and the electrode potential, if the concentration is plotted on a logarithmic axis, as shown in Fig. 2. Conducting quantitative analysis using an ION electrode requires either an ION meter that has an antilog calculation function or the creation of a calibration curve using similog graph paper.



**Fig. 2 Relationship between ION concentration and electric potential**

## Standard solution

Finding the ION concentration of the solution being measured requires prior calibration of the ION meter using a prepared standard solution with a known ION concentration.

The number of times the meter is to be calibrated depends on the accuracy desired. Calibration is usually performed once a day, prior to making measurements. Calibrating the meter when the standard solution has been mixed using a stirrer or other utensil will improve the electrode responsiveness and measurement stability.

- Basically, at least two standard solutions of different concentrations should be used to calibrate this meter. If the approximate ION concentration of the liquid to be measured is known, standard solutions having lower and higher concentrations than that liquid should be used for calibration. In such cases, the standard solution with the lower ION concentration should have 1/10 the concentration of the standard solution with the higher concentration.
- If the approximate ION concentration of the liquid to be measured is unknown, choose low and high-concentration standard solutions with a larger differential than the 1/10 used in the above example. However, be sure not to exceed the limits of the ION electrode detection capabilities or linearity.

## Temperature of standard solution and liquid to be measured

The meter is equipped with a built-in temperature compensation function. Nevertheless, the temperature of the standard solution during calibration and the temperature of the liquid being measured while it is being measured should be kept as close as possible, to ensure accurate measurement.

This is because the output of the ION electrode and the reference electrode changes according to changes in temperature. The greater the difference in temperature between the standard solution and the liquid being

tested, the larger the errors that may occur in calculation.

### **Handling standard solution after use**

Standard solution that has been used should not be returned to the original container. It should be discarded.

### **Storing standard solution**

Standard solution must be stored in an air-tight container and should be kept in a cool, dark place.

If standard solution is not stored in an air-tight container, it will evaporate and become contaminated with impurities, causing the concentration to change.

## 7.4 Conductivity measurement

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### Electrode sensitivity check

The cell constant of a conductivity electrode may vary, depending on the sample solution. Check the cell constant by measuring conductivity, using the following solutions, at least once every three months.

Cell constant	Electrode model	KCl standard solution	KCl Weight	Solution temp.	Conductivity value
SI units $100 \text{ m}^{-1}$ (former unit designation $1 \text{ cm}^{-1}$ )	9382 -10D	0.01 mol/L	0.7440 g	0°C	77.4 mS/m (0.774 mS/cm)
				18°C	122.0 mS/m (1.220 mS/cm)
				25°C	140.8 mS/m (1.408 mS/cm)

Prepare the potassium chloride standard solution (KCl 0.01 mol/L) using the procedure below.

In addition, if an error of 5% or more compared to the above values occurs, calibrate the cell constant (See page 52).

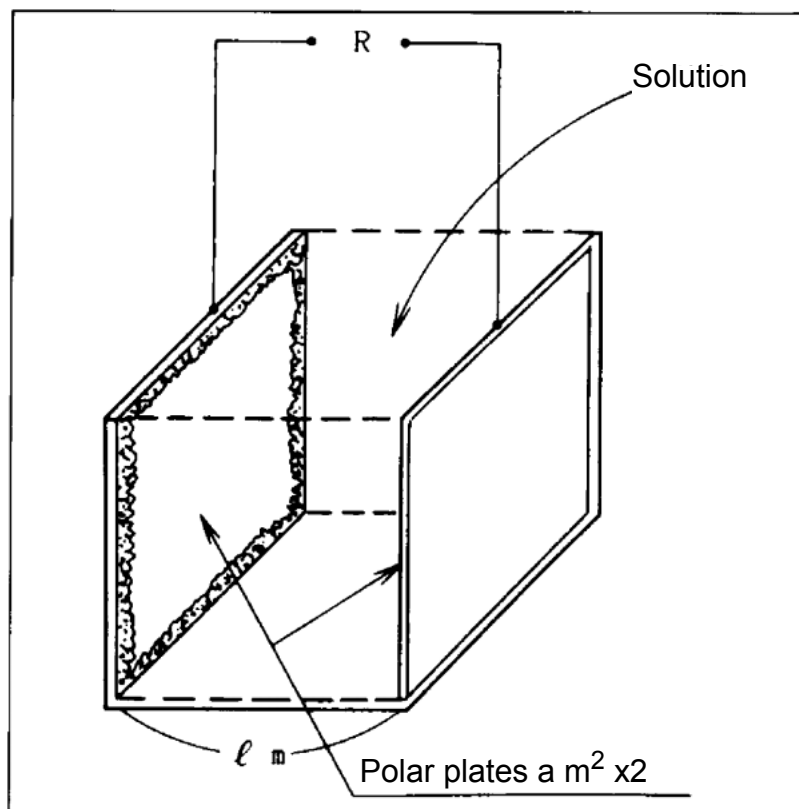
### Preparing potassium chloride standard solution

#### How to prepare solution

Dry the potassium chloride powder (“superior quality” commercial potassium chloride or better) for two hours, at 105 °C, then cool it in a desiccator. Measure out the above-listed amount of potassium chloride into a beaker and dissolve it in de-ionized water. Then, pour this solution into 1-liter volumetric flask and add de-ionized water until the indication line.

## Measuring conductivity

“Conductivity” is an index that expresses the ease with which electric current flows through a material. Conductors are categorized either as “electron conductors” (such as metals and other substances which use free electrons to conduct electricity) or “ion conductors” (such as electrolytic solution or fused salt, which use ions to conduct electricity). This section deals with the kind of conductivity that pertains to ions, especially the conductivity of electrolytic solution that uses water as the solvent. As shown in Fig. 3, two pole plates with an area  $A$  (expressed in  $m^2$ ) are positioned parallel to each other, separated by distance  $l$  (expressed in  $m$ ). Then solution is poured into the cell until it is full and alternating current is run between the plates.



**Fig. 3 Conductivity cell example**

Each positive and negative ION in the solution will migrate toward the oppositely charged pole. The result is that current flows through the solution by means of ION conductivity. When this occurs, resistance  $R$  (expressed



## 7 Reference

### 7.4 Conductivity measurement

in  $R$ ) is in inverse proportion to the area  $A$  (expressed in  $m^2$ ) of the pole plates, as is the case with metal and other conductors, and is proportional to the distance  $l$  (expressed in  $m$ ) between the two pole plates. These relationships are expressed by equation 1, below.

$$R = r \times l/a = rJ \quad (\text{Equation 1})$$

R: Resistance ( $\Omega$ )

r: Specific resistance ( $\Omega \cdot m$ )

a: Pole plate area ( $m^2$ )

l: Distance between pole plates ( $m$ )

J: Cell constant ( $m^{-1}$ )

Specific resistance (expressed in  $\Omega \cdot m$ ) is an index that indicates the difficulty with which current flows and is a constant determined according to the solution. The inverse of  $r$  (expressed in  $\Omega \cdot m$ ), which is  $L$  (and is equal to  $1/r$ ), is called the “specific conductivity” and is widely used as an index to express the ease with which current flows. Specific conductivity  $L$  is generally referred to as simply “conductivity” and is expressed in units of  $S/m$ . Inserting conductivity  $L$  (expressed in  $S/m$ ) into equation 1 results in equation 2, below.

$$R = J/L \quad (\text{Equation 2})$$

As is clear from equation 2, when a conductivity cell having a cell constant  $J$  of  $1 m^{-1}$  is used (in other words, when a conductivity cell having two pole plates that each have an area  $a$  of  $1 m^2$  and are positioned parallel to each other such that the distance  $l$  between the two plates is  $1 m$  is used) the inverse of the resistance  $R$  of the solution (expressed in  $\Omega$ ) between both pole plates is the conductivity. Conductivity is defined in this way, but it changes according to the temperature of the solution.

The conductivity of a solution is generally expressed as the value when the solution is  $25^\circ C$ .

## New units (SI units)

New measurement units, called SI units, have come into use in recent years. Accordingly, the meter also uses SI units. The following conversion table is provided for people who are used to using the conventional kind of conductivity meter. Note that along with the change in unit systems, the measurement values and cell counts have also changed.

	Former units		SI units
Cell constant	1 cm <sup>-1</sup>		100 m <sup>-1</sup>
	0.1 cm <sup>-1</sup>		10 m <sup>-1</sup>
	10 cm <sup>-1</sup>		1000 m <sup>-1</sup>
Measurement value	10 μS/cm		1 mS/m
	1 mS/cm		100 mS/m
	100 mS/cm		10 S/m

## Temperature compensation

The conductivity of a solution generally varies greatly, depending on the temperature of the solution. Because the conductivity of a solution is based on its ION conductivity, as explained above, the higher the temperature of the solution the more active its ions and the higher its conductivity. Using a given temperature as the standard (and calling that the standard temperature), the “temperature coefficient” expresses how much change (expressed in %) occurs in conductivity when the temperature of the solution changes by 1°C. The temperature coefficient is expressed in units of “%/°C (standard temperature).” This temperature coefficient is found by assuming that the conductivity of the sample changes linearly in relation to temperature, whereas the change in conductivity of an actual sample, strictly speaking, follows a curve. The shape of this curve changes, depending on the kind of sample being measured. Most solutions, however, are said to generally have a temperature coefficient of 2%/°C (25°C

## 7 Reference

### 7.4 Conductivity measurement

standard), within a range where the size of the temperature change is not very large.

The meter is equipped with a built-in automatic temperature conversion function, enabling them to automatically calculate and display, based on the actual temperature measurement, the conductivity of a sample at 25°C, using a temperature coefficient of 2%/°C.

## Conductivity and temperature coefficients for various solutions

The following table shows the conductivity (converted to 25 °C) and the temperature coefficient at that time, for various kinds of solution.

Sub-stance	Temp. (°C)	Conc. (wt%)	Cond. (S/m)	Temp. coef. (%/°C)	Sub-stance	Temp. (°C)	Conc. (wt%)	Cond. (S/m)	Temp. coef. (%/°C)
NaOH	15	5	19.69	2.01	NaCl	18	5	6.72	2.17
		10	31.24	2.17			10	12.11	2.14
		15	34.63	2.49			15	16.42	2.12
		20	32.70	2.99			20	19.57	2.16
		30	20.22	4.50			25	21.35	2.27
		40	11.64	6.48			Na <sub>2</sub> SO <sub>4</sub>	18	5
KOH	15	25.2	54.03	2.09	10	6.87			2.49
		29.4	54.34	2.21	15	8.86			2.56
		33.6	52.21	2.36	Na <sub>2</sub> CO <sub>3</sub>	18	5	4.56	2.52
42	42.12	2.83	10	7.05			2.71		
NH <sub>3</sub>	15	0.1	0.0251	2.46			15	8.36	2.94
		1.6	0.0867	2.38	KCl	18	5	6.90	2.01
		4.01	0.1095	2.50			10	13.59	1.88
		8.03	0.1038	2.62			15	20.20	1.79
		16.15	0.0632	3.01			20	26.77	1.68
21	28.10	1.66							
HF	18	1.5	1.98	7.20	KBr	15	5	4.65	2.06
		4.8	5.93	6.66			10	9.28	1.94
		24.5	28.32	5.83			20	19.07	1.77
HCl	18	5	39.48	1.58	KCN	15	3.25	5.07	2.07
		10	63.02	1.56			6.5	10.26	1.93
		20	76.15	1.54			-	-	-
		30	66.20	1.54			-	-	-

## 7 Reference

### 7.4 Conductivity measurement

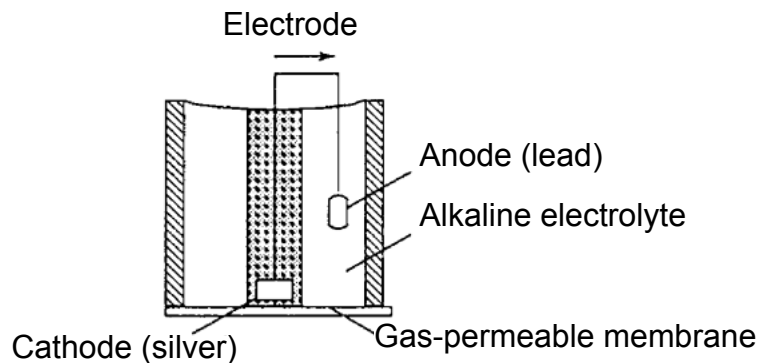
Sub-stance	Temp. (°C)	Conc. (wt%)	Cond. (S/m)	Temp. coef. (%/°C)	Sub-stance	Temp. (°C)	Conc. (wt%)	Cond. (S/m)	Temp. coef. (%/°C)
H <sub>2</sub> SO <sub>4</sub>	18	5	20.85	1.21	NH <sub>4</sub> Cl	18	5	9.18	1.98
		10	39.15	1.28			10	17.76	1.86
		20	65.27	1.45			15	25.86	1.71
		40	68.00	1.78			20	33.65	1.61
		50	54.05	1.93			25	40.25	1.54
		60	37.26	2.13	NH <sub>4</sub> NO <sub>3</sub>	15	5	5.90	2.03
		80	11.05	3.49			10	11.17	1.94
		100.14	1.87	0.30			30	28.41	1.68
		-	-	-			50	36.22	1.56
HNO <sub>3</sub>	18	6.2	31.23	1.47	CuSO <sub>4</sub>	18	2.5	10.90	2.13
		12.4	54.18	1.42			5	18.90	2.16
		31	78.19	1.39			10	32.00	2.18
		49.6	63.41	1.57			15	42.10	2.31
		62	49.64	1.57	CH <sub>3</sub> CO OH	18	10	15.26	1.69
H <sub>3</sub> PO <sub>4</sub>	15	10	5.66	1.04			15	16.19	1.74
		20	11.29	1.14	20	16.05	1.79		
		40	20.70	1.50	30	14.01	1.86		
		45	20.87	1.61	40	10.81	1.96		
		50	20.73	1.74	60	4.56	2.06		

## 7.5 Dissolved oxygen measurement

### Measuring dissolved oxygen

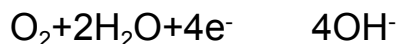
“Dissolved oxygen” (DO) is the concentration of oxygen that is dissolved in water. DO is essential in the self-cleaning mechanism of rivers and seas and for fish and other aquatic animals. The measurement of DO is also essential for waste-water treatment and water-quality management.

The principles of measurement using a DO tip are explained below.



**Fig. 4 DO tip measurement**

A precious metal (silver) is used as the cathode, which is tightly affixed to an oxygen-permeable membrane, and a base metal (lead) is used as the anode. Both the cathode and anode are immersed in an alkaline electrolytic solution. The external circuit between the anode and cathode is closed. Oxygen that diffuses through the oxygen-permeable membrane causes the following chain reaction to occur in the cathode and allows current to flow in the external circuit,



whereas, the following oxidation reaction occurs at the anode:



This current is proportional to the amount of oxygen that is diffused through the oxygen-permeable membrane, so measuring the current of the sample enables the DO contained within the sample to be determined.

The DO measurement method that is based on this principle is called the “Membrane electrode method.” This is a much simpler and more convenient way of measuring DO than using chemical analysis, which requires complex pretreatment in order to eliminate the effects of reductants and oxidants in the sample.

### **Salinity concentration correction**

When a solution is in contact with air and is in a state of perfect equilibrium (a state of saturation), the relationship between the DO contained within the solution (C; expressed in mg/L) and the partial pressure of the oxygen in the air (Ps; expressed in Mpa) is shown by the following equation:

$$C = P_s / H$$

The H (expressed as MPa/[mg/L]) in this equation is referred to as the “Henry constant” and has a different value depending on the composition of the solution. Generally, the higher the salinity concentration within a solution, the larger H becomes, and, consequently, the smaller C becomes.

DO tips actually detect the “Ps” that occurs in the above equation. This means that even if a DO tip is immersed in pure water that is saturated with air or in an aqueous solution containing salt, the output current will not change, which gives rise to a problem.

For this reason, it is necessary to correct the salinity concentration, to enable the correct DO to maintain a current, even in an aqueous solution containing salt, and resolve the problem.

### **Air pressure correction**

The amount of DO in a solution is proportional to the partial pressure of the oxygen contained within the air in which the solution is in contact.

At 25°C, for example, when water is saturated by air that has an atmospheric pressure of 1013 hPa (1 atmosphere), the DO is 8.11 mg/L. As the elevation at which measurement takes place increases, however, the atmospheric pressure caused by the air decreases. So,

when air is made to saturate water at a high elevation, where the air pressure is, for example, 506.5 hPa (which is equal to 1013 hPa  $\times$  1/2), the DO will be 4.06 mg/L (which is equal to 8.11 mg/L  $\times$  1/2).

As explained above, careful attention must be paid to atmospheric pressure when calibrating a DO meter. Air pressure does not present any special problem when a DO meter is used near sea level, but when it is used at especially high altitudes, it is necessary to correct for the air pressure.

The D-55 meter has a built-in air-pressure correction function.

Set the atmospheric pressure in the pH meter when calibrating and the meter will automatically be calibrated using the air-pressure corrected value. Air-pressure correction is calculated using the equation below.

When calibration is finished, the value derived from this equation is displayed.

$$\text{Compensated value} = (1013/P) \times \text{measured value}$$

P is the air pressure (hPa) set in the meter.

**Saturated DO levels in water at various temperatures (with a salinity concentration of 0.00 ppt)**

Temp. (°C)	Saturated DO (mg/L)	Temp. (°C)	Saturated DO (mg/L)	Temp. (°C)	Saturated DO (mg/L)	Temp. (°C)	Saturated DO (mg/L)
1	13.77	11	10.67	21	8.68	31	7.42
2	13.40	12	10.43	22	8.53	32	7.32
3	13.04	13	10.20	23	8.39	33	7.22
4	12.70	14	9.97	24	8.25	34	7.13
5	12.37	15	9.76	25	8.11	35	7.04
6	12.06	16	9.56	26	7.99	36	6.94
7	11.75	17	9.37	27	7.87	37	6.86
8	11.47	18	9.18	28	7.75	38	6.76
9	11.19	19	9.01	29	7.64	39	6.68
10	10.92	20	8.84	30	7.53	40	6.59



## 7.6 Specifications

### Measurement target

Target	Item	Description	D-52	D-53	D-54	D-55
pH	Measurement principle	Glass electrode				
	Display range	pH -2.00 – 16.00				
	Measurement range	pH 0.00 – 14.00				
	Resolution	0.01 pH				
	Repeatability	±0.01 pH ±1digit				
Temp.	Measurement principle	Thermistor				
	Measurement range	0.0 – 100.0 °C				
	Resolution	0.1 °C				
	Repeatability	±0.1 °C ±1digit				
mV	Measurement range	±1999 mV				
	Resolution	1 mV				
	Repeatability	±1 mV ±1digit				
Ion	Measurement principle	ION electrode				
	Measurement range	0.00 µg/L – 999 g/L(mol/L)	-		-	-
	Resolution	3-digit valid numbers				
	Repeatability	±0.5% ±1 digit of full scale				

Target	Item	Description	D-52	D-53	D-54	D-55
Conductivity	Measurement principle	2 AC bipola method				
	Measurement range	Cell constant 100 m <sup>-1</sup> 0.000 mS/m – 19.99 S/m Cell constant 10 m <sup>-1</sup> 0.0 μS/m – 1.999 S/m Cell constant 1000 m <sup>-1</sup> 0.00 mS/m – 1999.9 S/m	-	-		-
	Resolution	0.05% of full scale				
	Repeatability	±0.5% ±1 digit of full scale				
Dissolved Oxygen	Measurement principle	Membrane galvanic cell				
	Measurement range	0.00 – 19.99 mg/L				
	Temperature compensation	0 – 40 °C	-	-	-	
	Resolution	0.01 mg/L				
	Repeatability	±0.1 mg/±1 digit				

### Items in common among meter models

Data memory capacity	Max. 300 pieces of data
Power	Dry cell batteries type:AA alkaline with automatic power OFF function
Ambient temperature	0 – 45 °C
Dimensions	170(H) × 80(W) × 40(D) mm
Mass of main unit (including batteries)	300 g ( D-52) 330 g ( D-53,54,55)

## 7.7 Default settings

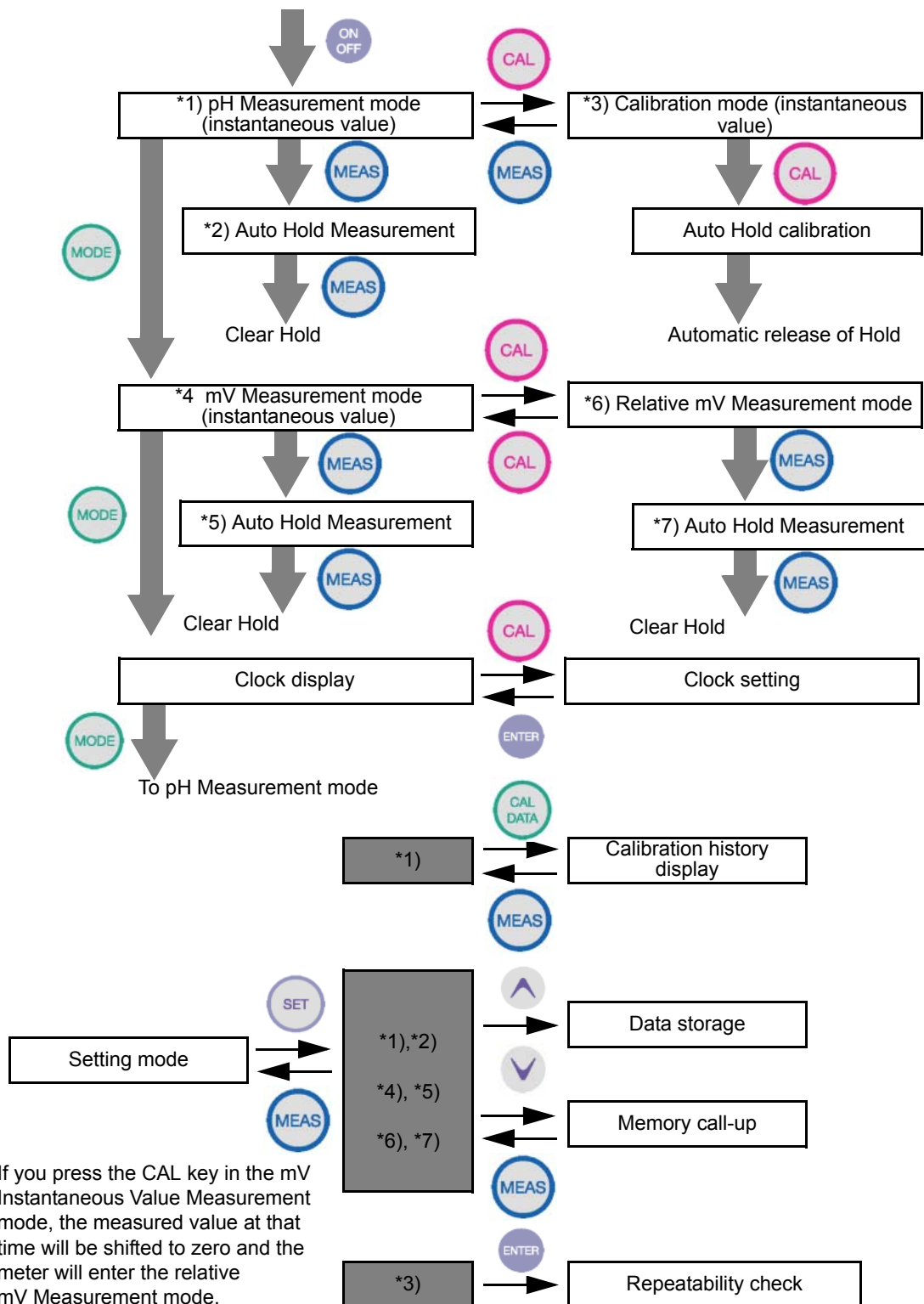
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Category	Item	Default values
Common setting	Temperature compensation	Automatic temperature compensation
	Manual temperature compensation	25 °C
	Automatic power OFF	Approx. 30 min (ON)
	Sample ID	00000
	Calibration cycle	OFF
	Auto data memory	OFF
pH	Standard calibration solution	NIST
	Calibration setting	Asymmetric potential: 0mV Sensitivity: 100%
Ion	Ion slope	+1
	Unit	g/L
	Channel setting	CH1: pH, CH2: ion
Conductivity	Unit	S/m
	Temperature coefficient	2.0 %/°C (ON)
	Cell constant	1.0 x 100 m <sup>-1</sup>
Dissolved oxygen	Salinity	0.0 ppt
	Air pressure	1013 hPa

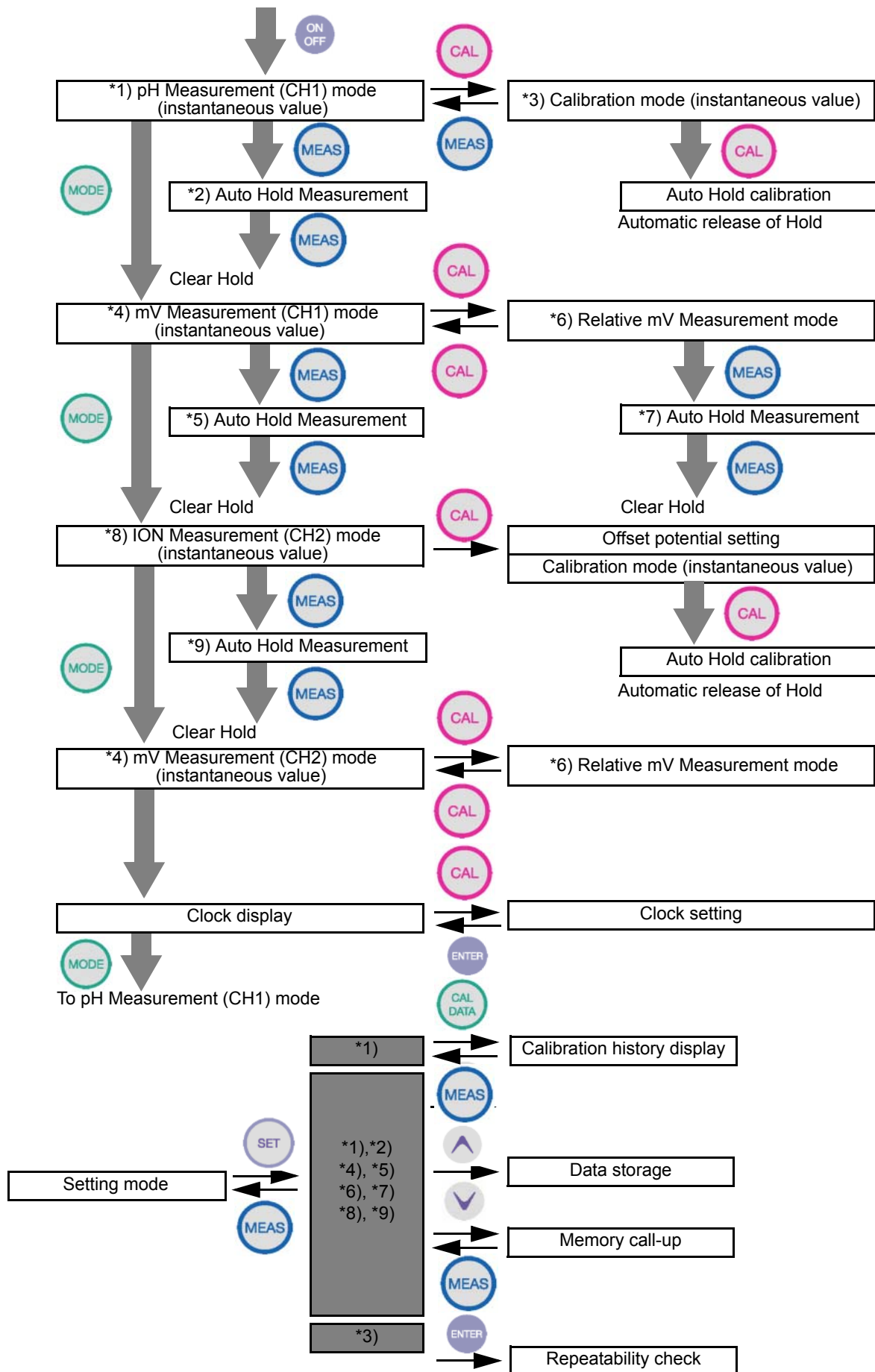
## 7.8 Operation flowcharts

The following summarizes the operational flow for each of the pH meter models.

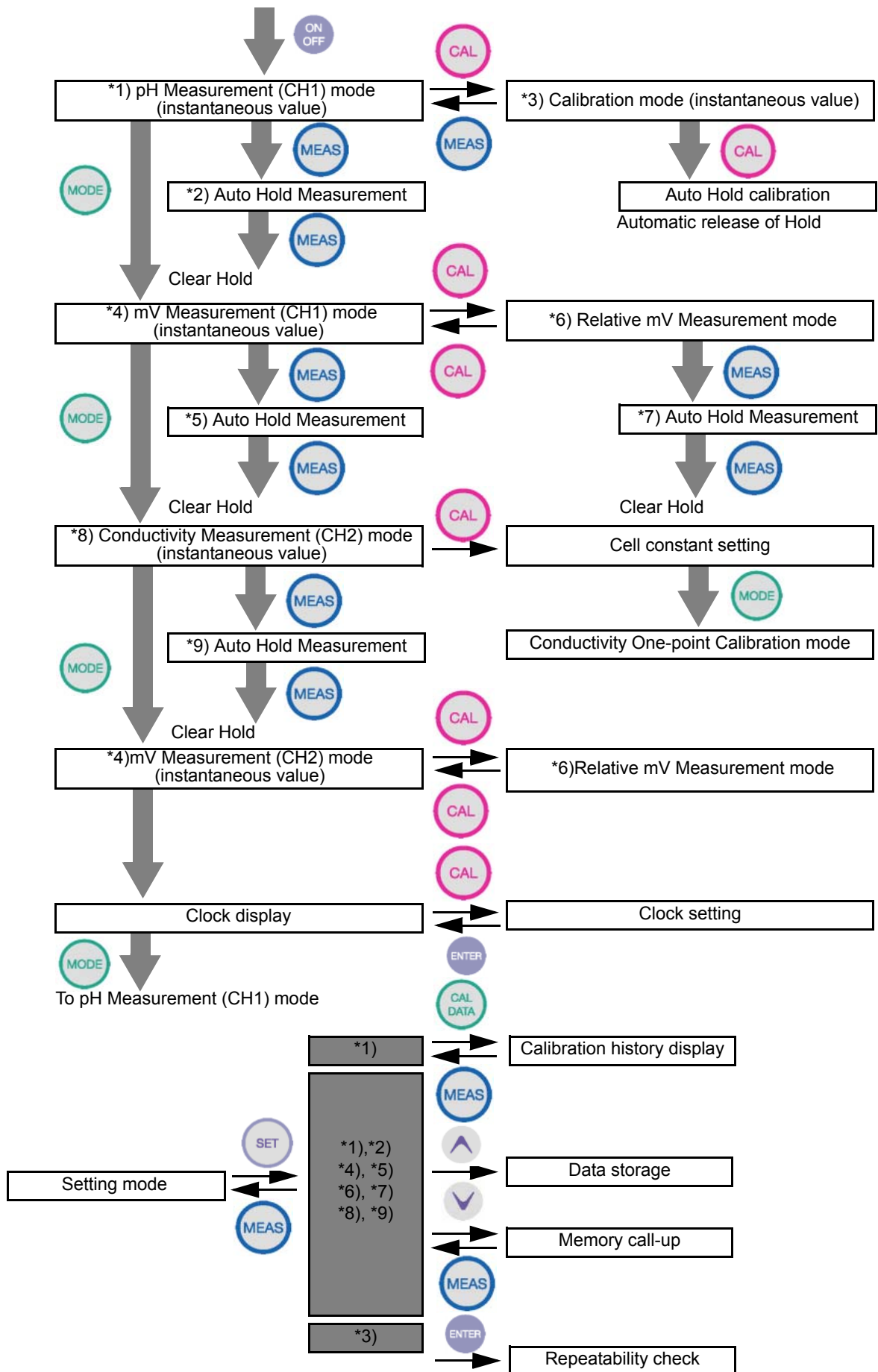
### D-52 basic operation flow



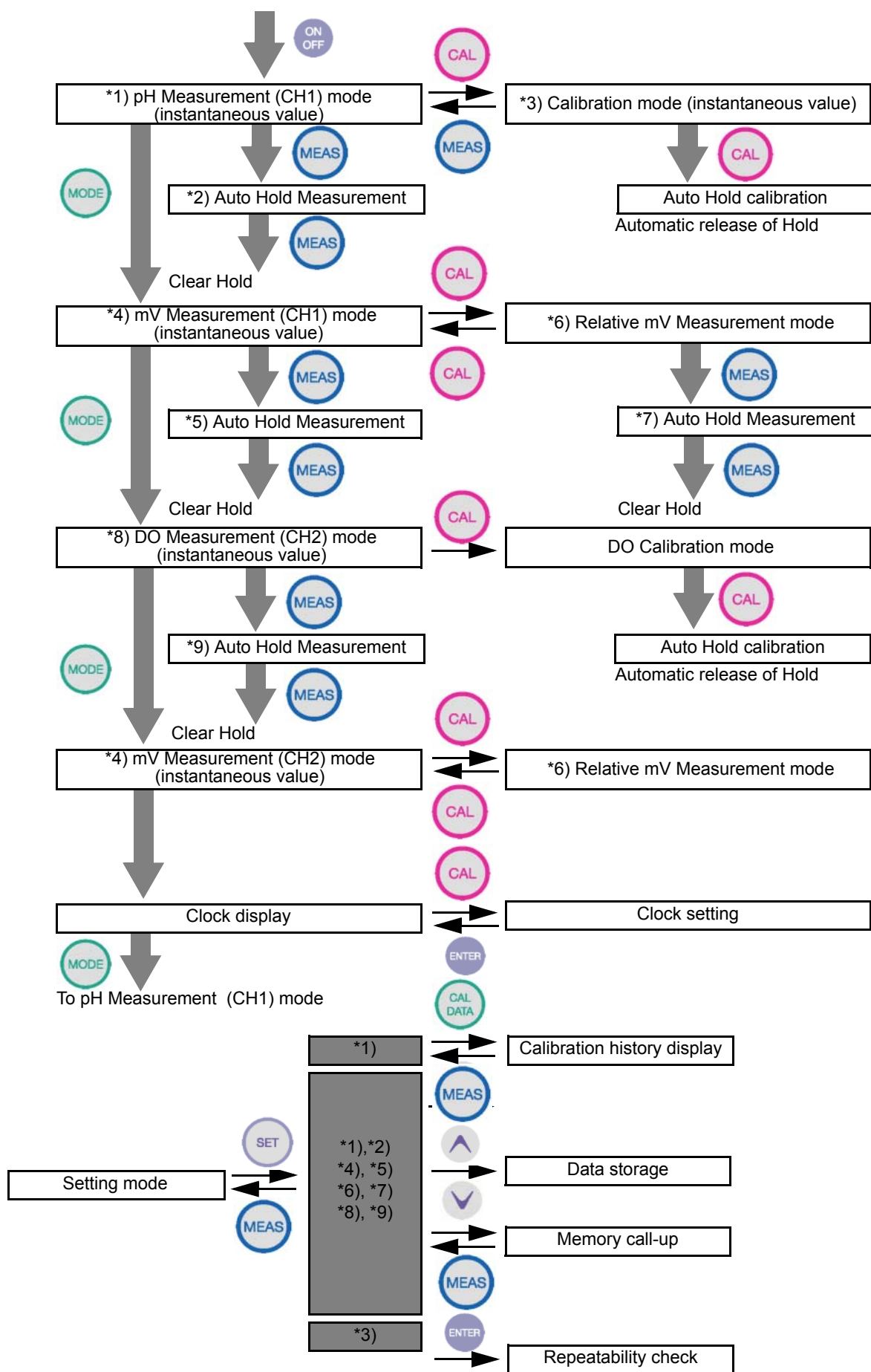
### D-53 basic operation flow



### D-54 basic operation flow



### D-55 basic operation flow



## 7.9 Pin layout of special cables

---

### 7.9.1 RS-232C communications cable

Meter main unit		Printer
MINI DIN8M		D-SUB 9-PIN
2;CTS	-	7;RTS
3;TXD	-	2;RXD
4;GND	-	5;GND
5;RXD	-	3;TXD

### 7.9.2 Cable for CITIZEN printer

CBM-910-24RJ100-A

Meter main unit		Printer
MINI DIN8M		D-SUB 25-PIN
2;CTS	-	20;BUSY
3;TXD	-	3;RXD
4;GND	-	7;GND
5;RXD	-	2;TXD

### 7.9.3 Cable for SEIKO printer

DPU-H245AS-A03A

Meter main unit		Printer
MINI DIN8M		D-SUB 25-PIN
2;CTS	-	8;BUSY
3;TXD	-	3;DATA
4;GND	-	5;GND
5;RXD	-	2;OPEN



## 7.10 Spare and optional parts

---

This section lists spare and optional parts for the pH meter.

These parts are available through HORIBA distributors. Place an order specifying their name, model, and part number.

### 7.10.1 Spare parts list

#### pH electrode (with built-in temperature sensor)

Part name	Model	Part number	Remarks
D-50 series standard electrode	9621-10D	9096001700	Plastic-body electrode (for immersion measurement)
F-50 series standard electrode	9611-10D	9096001800	Glass-body electrode (reinforced responsive glass)
Laboratory-use electrode for slurry samples	9677-10D	9096002000	Built-in washable reference electrode (reinforced responsive glass)
Laboratory-use electrode for micro samples	9669-10D	9096001900	Electrode incorporating temperature sensor compatible with micro sample measurement Tip: $\phi 3$ , 55 mm

#### pH electrode (without built-in temperature sensor)

Part name	Model	Part number	Remarks
Low-end electrode	6066-10C	9003013400	Glass-body electrode
Electrode for NMR tubes	6069-10C	9003013500	Tip: $\phi 3$ , 180 mm

### ORP electrode (with built-in temperature sensor)

Part name	Model	Part number	Remarks
Standard ORP electrode	9300-10D	9096000400	Flat platinum type

### ORP electrode (without built-in temperature sensor)

Part name	Model	Part number	Remarks
ORP electrode (without built-in temperature sensor)	6861-10C	9003013100	Bar-shaped platinum type

### ION electrode for D-53

Part name	Model	Part number	Remarks
Chloride ION electrode	6560-10C	9003014500	Combined ION electrode
Fluoride ION electrode	6561-10C	9003014600	Combined ION electrode
Nitric acid ION electrode	6581-10C	9003014700	Combined ION electrode
Potassium ION electrode	6582-10C	9003014800	Combined ION electrode
Calcium ION electrode	6583-10C	9003014900	Combined ION electrode
Ammonia ION electrode	5002-10C	9003016600	Combined ION electrode

## 7 Reference

### 7.10 Spare and optional parts

#### Spare tip for ION electrode

Part name	Model	Part number	Remarks
Chloride ION tip	7660	9003015000	For 6560-10C
Fluoride ION tip	7661	9003015100	For 6561-10C
Nitric acid ION tip	7681	9003015200	For 6581-10C
Potassium ION tip	7682	9003015300	For 6582-10C
Calcium ION tip	7683	9003015400	For 6583-10C

### Internal reference solution for ION electrodes

Part name	Model	Part number	Remarks
Internal reference solution for chloride ion	301	9037006700	6560-10C For outer tube: 50 mL
Internal reference solution for fluoride ion	300	9003003200	6561-10C, 6583-10C For outer tube: 250mL
Internal reference solution for nitric acid ion	302	9037006600	6581-10C For outer tube
Internal reference solution for potassium ion	303	9037006900	6582-10C For outer tube: 50mL
Internal reference solution	330	9037005200	For all 65XX-10C For inner tube: 250mL

### COND electrode for D-54

Part name	Model	Part number	Remarks
Water-proof type conductivity electrode	9382-10D	9096000300	Water-proof Cell constant 100 m <sup>-1</sup>
Conductivity electrode	3551-10D *1)	9056000800	For low conductivity Cell constant 10 m <sup>-1</sup>
	3553-10D *1	9056001000	For high conductivity Cell constant 1000 m <sup>-1</sup>
Flow-through type conductivity electrode	3561-10D *1)	9056001100	For low conductivity Cell constant 10 m <sup>-1</sup>
	3562-10D *1)	9056001200	General purpose Cell constant 100 m <sup>-1</sup>
	3573-10C *1)	9056001300	For high conductivity Cell constant 1000 m <sup>-1</sup>
	3574-10C *1)	9056001400	For micro samples Cell constant 1000 m <sup>-1</sup>

## 7 Reference

### 7.10 Spare and optional parts

\*1): The pH electrode and conductivity electrode interfere with each other when both are immersed in the same sample container and measurements are made at the same time. Make sure each measurement is made one at a time with only one electrode in the sample.

**Note**

Actual cell constants vary within  $\pm 10\%$  of the above values.

### DO electrode

Part name	Model	Part number	Remarks
Water-proof DO electrode	9520-10D	9096000500	Water-proof type For laboratory use
	9551-20D	9096002300	On-site immersion type Cable length 2 m
	9551-100D	9096002400	On-site immersion type Cable length 10 m

### DO electrode spare tip

Part name	Model	Part number	Remarks
Spare tip	7541	9074000200	For 9520
	5401	9033010000	For 9551

### pH standard solution

Part name	Model	Part number	Remarks
pH2 standard solution	100-2	9003001500	500 mL Accuracy: ±0.02 pH
pH4 standard solution	100-4	9003001600	
pH7 standard solution	100-7	9003001700	
pH9 standard solution	100-9	9003001800	

Part name	Model	Part number	Remarks
pH2 standard solution powder	150-2	9003002600	Makes 500mL (10 packets) Accuracy: ±0.05 pH
pH4 standard solution powder	150-4	9003002700	
pH7 standard solution powder	150-7	9003002800	
pH9 standard solution powder	150-9	9003002900	

### Standard solution for ORP check

Part name	Model	Part number	Remarks
Standard solution for ORP check	160-51	9003003100	ORP 95 mV For Ag/AgCl electrode at 20°C
	160-22	9003003000	ORP 262 mV For Ag/AgCl electrode at 20°C

## 7 Reference

### 7.10 Spare and optional parts

#### Internal reference solution

Part name	Model	Part number	Remarks
Internal reference solution	#300	9003003200	250 mL

#### Cleaning liquid

Part name	Model	Part number	Remarks
Cleaning liquid for electrodes	#220	9096002500	For pH, ORP, and ION electrodes

## 7.10.2 Options

Part name		Part number	Remarks	
AC adapter for the pH meter	AC adapter	9096003100	Be sure to purchase the cable when purchasing the AC adapter.	
	Cable	For Japan		9096003200
		For US		9096003300
		For Europe		9096003400
Plain paper printer	Printer	For Japan	9096003500	
		For US	9096003600	
		For Europe	9096003700	
	Printer cable	9096003800		
	Roll paper	9096003900		
	Ink ribbon	9096004000		
Serial cable		9096004800		
Data collection software		9096005000	For PC	
Soft case		9096005100		
Strap		9096005200	For the meter	
Stand for electrode		9096002700		
Stand arm		9096002800		
Protective cap		9096002900	For the meter	



For any question regarding this product,  
please contact your local agency, or  
inquire from the Customer Registration  
website ([www.horiba.co.jp/register](http://www.horiba.co.jp/register))

**HORIBA, Ltd.**

First edition: August 2003  
CODE : I1001379000

## **Appendix B**

### **Region 4 Field Branches Quality System and Technical Procedures Standard Operating Procedures**

**Region 4**  
**U.S. Environmental Protection Agency**  
**Science and Ecosystem Support Division**  
**Athens, Georgia**

**OPERATING PROCEDURE**

**Title: Field Measurement of Dissolved Oxygen**

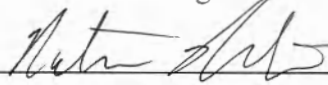
**Effective Date:** April 12, 2017

**Number:** SESDPROC-106-R4

**Author**

**Name:** Nathan Barlet

**Title:** Environmental Engineer

**Signature:** 

**Date:** April 5, 2017

**Approvals**

**Name:** John Deatrick


**Title:** Chief, Field Services Branch

**Signature:** 

**Date:** 4/11/17

**Name:** Hunter Johnson

**Title:** Field Quality Manager, Science and Ecosystem Support Division

**Signature:** 

**Date:** 4/11/17

## Revision History

The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the SESD Document Control Coordinator on the SESD local area network (LAN).

History	Effective Date
<p>SESDPROC-106-R4, <i>Field Measurement of Dissolved Oxygen</i>, replaces SESDPROC-106-R3</p> <p><b>General:</b> Corrected any typographical, grammatical, and/or editorial errors. In addition, any references to former Division organizational structure was updated to reflect current structure.</p> <p><b>Title Page:</b> Changed the Author from Hunter Johnson to Nathan Barlet. Changed the Field Quality Manager from Bobby Lewis to Hunter Johnson. Updated cover page to represent SESD reorganization.</p> <p><b>Table of Contents:</b> Added Sections 3.2.1 Water-Saturated Air Method, 3.2.2 Air-Saturated Water Method, and 3.2.3 Zero-DO Verification &amp; 2-Point Calibration. Changed Section 3.5 from “Operational Check” to “Operational Verification.” Updated page numbers.</p> <p><b>Section 1.4:</b> Added the citations for Benson and Krause (1980), Benson and Krause (1984), USGS (2013a), and USGS (2013b) as references,</p> <p><b>Section 3.1:</b> Changed “volume of oxygen contained in a volume of water” to “mass of molecular oxygen contained in a volume of water.” Changed “pressure” in first paragraph and third bullet point to “atmospheric pressure.”</p> <p><b>Section 3.2:</b> Added “However, some optical DO meters are capable of a two-point calibration at 0% and 100% saturation, refer to Section 3.2.3 for applicability.”</p> <p>Added Section 3.2.1 Water-Saturated Air Method, which includes information on the calibration procedure for the water-saturated air method. Added “Allow at least 10-15 minutes for the temperature and dissolved oxygen readings to equilibrate. Ensure that water droplets are removed from the luminescence cap or Clark cell membrane and thermistor before calibration. Refer to Section 3.5 for calibration verification procedure.”</p> <p>Added Section 3.2.2 Air-Saturated Water Method, which includes information on the calibration procedure for the air-saturated water</p>	<p>April 12, 2017</p>

<p>method. Added “Refer to Section 3.5 for calibration verification procedure.”</p> <p>Added Section 3.2.3 Zero-DO Verification &amp; 2-Point Calibration. Added “It is recommended that a zero-DO verification is conducted periodically or when concentrations are expected to be below 1 mg/l (USGS, 2013a). A zero-DO solution can be prepared by dissolving 1 gram of sodium sulfite in 1 liter of deionized water. This should be made fresh weekly or as needed. If the unit is equipped with a wiper, it should be removed before immersing in zero-DO solution. The reading should not exceed a concentration of 0.2 mg/l dissolved oxygen in the zero-DO solution. For Clark cells that exceed this concentration, replace the electrolyte and membrane before repeating the zero-DO verification process. For optical probes that read above 0.2 mg/l in zero-DO solution, replace the sensor cap if it is expired or perform a 2-point calibration if applicable. Some optical DO probes are capable of 2-point calibrations using a zero-DO solution and the air-saturated water method discussed in Section 3.2.2. Refer to the manufacturer’s instruction manual for the appropriate 2-point calibration procedure. Ensure that the probe is thoroughly rinsed of zero-DO solution after verification or calibration to avoid measurement interferences caused by residual sodium sulfite.”</p> <p><b>Section 3.4:</b> Changed the fifth bullet point to read “The DO meter should be capable of auto-correcting for specific conductivity/salinity or a separate instrument should be used to measure specific conductivity/salinity so that the final DO measurement(s) can be corrected.”</p> <p><b>Section 3.5:</b> Changed the title from “Operational Check” to “Operational Verification.”</p> <p>Changed first paragraph to read “A post-calibration and post-operation instrument verification check should be performed using one of the techniques described in Sections 3.2.1 and 3.2.2 or 3.2.3 (for 2-point calibrations) to quantify potential instrument drift during use. A verification check will be performed after a calibration and at the end of all measurements”</p> <p>Changed second paragraph to read “It may be appropriate to verify the calibration of a DO meter periodically during the course of a day’s measurements when conducting individual measurements. A DO probe may be re-calibrated throughout the day if drift is occurring. The verification DO concentration should be measured and recorded in the field logbook prior to any instrument adjustment.” Also added the sentence “For long-term deployments a post-operation verification should be performed at the end of the deployment.”</p> <p>Added third paragraph which reads “Verification is done by comparing a post-calibration or post-operation reading at 100% saturation conditions to a DO solubility table value at the ambient air/water</p>	
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temperature and barometric pressure. Post-calibration and post-operation readings should not exceed a maximum of $\pm 0.2$ mg/l from the DO solubility table value. DO solubility tables can be accessed via the U.S. Geological Survey's DOTABLES software (USGS, 2013b) which are based on equations from Benson and Krause (1980; 1984)."	
SESDPROC-106-R3, <i>Field Measurement of Dissolved Oxygen</i> , replaces SESDPROC-106-R2	January 8, 2014
SESDPROC-106-R2, <i>Field Measurement of Dissolved Oxygen</i> , replaces SESDPROC-106-R1	February 12, 2010
SESDPROC-106-R1, <i>Field Measurement of Dissolved Oxygen</i> , replaces SESDPROC-106-R0	November 1, 2007
SESDPROC-106-R0, <i>Field Measurement of Dissolved Oxygen</i> , Original Issue	February 05, 2007

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# **1 General Information**

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## **1.1 Purpose**

This document describes methods and considerations to be used and observed when conducting field measurements of dissolved oxygen in surface water, treated wastewater and in gas media for specific applications (e.g., reaeration measurement).

## **1.2 Scope/Application**

On the occasion that SESD field investigators determine that any of the procedures described in this section are inappropriate, inadequate or impractical and that another method must be used to obtain a measurement of dissolved oxygen, the alternate procedure will be documented in the field log book, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

## **1.3 Documentation/Verification**

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD Local Area Network (LAN). The Document Control Coordinator (DCC) is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

## **1.4 References**

Benson, B.B., and Krause, D., Jr, 1980. The concentration and isotopic fractionation of gases dissolved in freshwater in equilibrium with the atmosphere—1. Oxygen: *Limnology and Oceanography*, v. 25, no. 4, p. 662–671.

Benson, B.B., and Krause, D., Jr, 1984. The concentration and isotopic fractionation of oxygen dissolved in freshwater and seawater in equilibrium with the atmosphere: *Limnology and Oceanography*, v. 29, no. 3, p. 620–632.

SESD Operating Procedure for Equipment Inventory and Management, SESDPROC-108, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

SESD Field Branches Quality Management Plan, SESDPLAN-001, Most Recent Version



USEPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SEDS, Athens, GA, Most Recent Version

USGS, 2013a. Dissolved Oxygen (ver. 3.0): U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chap. A6, sec. 6.2, [http://water.usgs.gov/owq/FieldManual/Chapter6/6.2\\_v3.0.pdf](http://water.usgs.gov/owq/FieldManual/Chapter6/6.2_v3.0.pdf).

USGS, 2013b. DOTABLES (ver. 3.5): Dissolved Oxygen Solubility Tables, <https://water.usgs.gov/software/DOTABLES/>.

## **1.5 General Precautions**

### ***1.5.1 Safety***

Refer to the SEDS Safety, Health and Environmental Management Program Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. When using this procedure, minimize exposure to potential health hazards through the use of protective clothing, eye wear and gloves. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

Appropriate precautions should be observed when working in and around bodies of water and on boats. Be aware of fast flowing waters, waterway obstructions such as dams, and other vessels on the water.

## 2 Quality Control

---

All dissolved oxygen meters will be maintained and operated in accordance with the manufacturer's instructions and the SESD Operating Procedure for Equipment Inventory and Management (SESDPROC-108). Before a meter is utilized in the field, it will be calibrated and verified, according to Section 3.2 of this procedure, to ensure it is operating properly. These calibration and verification checks will be documented and maintained in a logbook.

For in-situ measurements, an instrument warm-up period appropriate for that instrument should be provided. Consult manufacturer's documentation for appropriate warm-up time.

The ambient temperature in the immediate vicinity of the meter should be measured and recorded in the field logbook to insure the instrument is operated within the manufacturer's specified range of operating temperatures. For instruments that are deployed for in-situ measurements, the temperature of the medium being monitored should be measured and recorded in the logbook prior to deployment. *In-situ monitoring equipment may be utilized in unattended deployments where autonomous logging may preclude temperature measurement prior to deployment. Because in situ instrumentation generally has a wide range of operating temperature, the field investigator may utilize professional judgment in determining if the operating environment is suitable for unattended deployment.*

Following instrument use, an end check should be performed using one of the techniques described in Section 3.2 to quantify potential instrument drift during use.

If at any time during a field investigation, it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

## 3 Field Measurement of Dissolved Oxygen

---

### 3.1 General

Dissolved oxygen can be defined as the mass of molecular oxygen contained in a volume of water. The solubility of oxygen in water is dependent on the water temperature, salinity and atmospheric pressure.

- As the temperature of the water decreases, the solubility of oxygen increases.
- As salinity increases, the solubility of oxygen decreases.
- As atmospheric pressure decreases (altitude increases), the solubility of oxygen decreases.

Several methods for measurement of dissolved oxygen in water are available utilizing a variety of technologies. When measuring dissolved oxygen for compliance with the National Pollutant Discharge Elimination System (NPDES) Program, only approved methods will be used. Approved methods can be found in the Code of Federal Regulations (CFR) 40 CFR Part 136.

#### 3.1.1 Clark Cell Probes

Clark cell probes utilize an oxygen permeable membrane that covers an electrolytic cell which consists of a cathode and an anode. The anode acts as a reference electrode. After passing through the permeable membrane, the oxygen is reduced by an applied potential voltage that is referenced to the anode. The reduction current at the cathode is directly proportional to the partial pressure of oxygen in liquid, expressed as %-air saturation. The concentration of oxygen, in mg/l, is calculated based on the %-air saturation reading and the solubility of oxygen in water at the sample temperature.

In general, sample collection using a DO probe requires only lowering the probe into the sample media and recording or logging the results. The probe should be lowered gently to prevent damage to the membrane and gently turned when initially lowered to remove any attached air bubbles. If the instrument requires the use of a stirrer, the stirrer should be turned on before recording any readings. Prior to use, the instrument should be calibrated and any manufacturer specified warm-up period should be observed.

#### 3.1.2 Luminescent Probes

Luminescent dissolved oxygen probes employ a light emitting diode (LED) to provide incident light, which excites the oxygen-sensitive luminescent-dye

molecule substrate of the sensor. After dissipation of the excitation energy, longer-wavelength light is emitted (luminescence). The magnitude of steady-state luminescence (intensity) is measured by the sensor and is inversely proportional to the dissolved oxygen concentration.

Sample collection with this type of probe should follow the sample procedures described in the second paragraph of Section 3.1.2 for Clark Cell probes.

## **3.2 Calibration**

Many brands of instruments are commercially available for *in-situ* measurement of dissolved oxygen using Clark cell probes and luminescent probes. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate.

In general, calibrations should be conducted at temperatures and pressures as close as possible to those of the sample media for the most accurate measurements. Due to the sensitivity of dissolved oxygen measurements to changes in temperature, the temperature probe or thermistor should be verified using a NIST traceable thermometer prior to each calibration. Most dissolved oxygen meters utilize a one-point calibration which is generally performed using either water-saturated air or air-saturated water. However, some optical DO meters are capable of a two-point calibration at 0% and 100% saturation, refer to Section 3.2.3 for applicability.

### ***3.2.1 Water-Saturated Air Method***

When using the water-saturated air method, the probes should be placed in a 100% relative humidity environment open to ambient air temperature and barometric pressure. Allow at least 10-15 minutes for the temperature and dissolved oxygen readings to equilibrate. Ensure that water droplets are removed from the luminescence cap or Clark cell membrane and thermistor before calibration. Refer to Section 3.5 for calibration verification procedure.

### ***3.2.2 Air-Saturated Water Method***

When using air-saturated water for calibration, an aeration device such as an aquarium pump with a diffusion stone should be placed in a vessel containing tap water. The water in the vessel should be aerated for a minimum of one hour at a

constant temperature. Saturation should be verified by placing the dissolved oxygen probe in the vessel and monitoring the temperature and dissolved oxygen readings for stabilization. Avoid placing the probe in the direct stream of air bubbles. Bubbles can accumulate on the probe surface and cause erroneous readings. Refer to Section 3.5 for calibration verification procedure.

### ***3.2.3 Zero-DO Verification and 2-Point Calibration***

It is recommended that a zero-DO verification is conducted periodically or when concentrations are expected to be below 1 mg/l (USGS, 2013a). A zero-DO solution can be prepared by dissolving 1 gram of sodium sulfite in 1 liter of deionized water. This should be made fresh weekly or as needed. If the unit is equipped with a wiper, it should be removed before immersing in zero-DO solution. The reading should not exceed a concentration of 0.2 mg/l dissolved oxygen in the zero-DO solution. For Clark cells that exceed this concentration, replace the electrolyte and membrane before repeating the zero-DO verification process. For optical probes that read above 0.2 mg/l in zero-DO solution, replace the sensor cap if it is expired or perform a 2-point calibration if applicable. Some optical DO probes are capable of 2-point calibrations using a zero-DO solution and the air-saturated water method discussed in Section 3.2.2. Refer to the manufacturer's instruction manual for the appropriate 2-point calibration procedure. Ensure that the probe is thoroughly rinsed of zero-DO solution after verification or calibration to avoid measurement interferences caused by residual sodium sulfite.

## **3.3 Maintenance**

Maintenance procedures vary depending on the technology utilized by each instrument and the manufacturer. The manufacturer's instruction manual should be consulted for instrument specific procedures. Following are some general guidelines for maintaining dissolved oxygen meters:

- Inspect probes for damage prior to use.
- For Clark cell probes, membranes and electrolyte solution should be changed prior to each study, when feasible.
- Battery voltages should be checked. For meters that will be deployed unattended, new or fully charged batteries should be used for each study.
- All calibration and maintenance procedures performed should be thoroughly documented.

### 3.4 Conducting Field Measurement of Dissolved Oxygen

Following are guidelines for conducting field measurements of dissolved oxygen:

- Except as described in specific operating procedures, dissolved oxygen measurements should if possible be conducted *in-situ*.
- When measuring DO at distinct points in the water column, the probe should be allowed to equilibrate at each location prior to recording the measurement.
- In water bodies with a great deal of flow, a weight may be attached to the probe guard or support cable to insure the probe is maintained at the proper depth.
- Insure that the measurement location is representative of conditions within the water body or reach. Avoid measurements directly below turbulent sections or still water unless these conditions represent most of the water body or reach.
- The DO meter should be capable of auto-correcting for specific conductivity/salinity or a separate instrument should be used to measure specific conductivity/salinity so that the final DO measurement(s) can be corrected.

### 3.5 Operational Verification

A post-calibration and post-operation instrument verification check should be performed using one of the techniques described in Sections 3.2.1 and 3.2.2 or 3.2.3 (for 2-point calibrations) to quantify potential instrument drift during use. A verification check will be performed after a calibration and at the end of all measurements.

It may be appropriate to verify the calibration of a DO meter periodically during the course of a day's measurements when conducting individual measurements. A DO probe may be re-calibrated throughout the day if drift is occurring. The verification DO concentration should be measured and recorded in the field logbook prior to any instrument adjustment. For long-term deployments a post-operation verification should be performed at the end of the deployment.

Verification is done by comparing a post-calibration or post-operation reading at 100% saturation conditions to a DO solubility table value at the ambient air/water temperature and barometric pressure. Post-calibration and post-operation readings should not exceed a maximum of  $\pm 0.2$  mg/l from the DO solubility table value. DO solubility tables can be accessed via the U.S. Geological Survey's DOTABLES software (USGS, 2013b) which are based on equations from Benson and Krause (1980; 1984).

U.S. Environmental Protection Agency  
Region 4, Science and Ecosystem Support Division  
Athens, Georgia

## OPERATING PROCEDURE

Title: **Field Measurement of Oxidation-Reduction Potential (ORP)**

Effective Date: April 26, 2017

Number: SESDPROC-113-R2

### Author

Name: Brian Striggow  
Title: Environmental Engineer

Signature:



Date: 4-20-17

### Approval

Name: John Deatrick  
Title: Chief, Field Services Branch

Signature:



Date: 4/24/17

Name: Hunter Johnson  
Title: Field Quality Manager, Science and Ecosystem Support Division

Signature:



Date: 4/20/17

## Revision History

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The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the SESD Document Control Coordinator on the SESD local area network (LAN).

History	Effective Date
<p>SESDPROC-113-R2, <i>Field Measurement of Oxidation-Reduction Potential (ORP)</i>, replaces SESDPROC-013-R1</p> <p><b>General:</b> Corrected any typographical, grammatical, and/or editorial errors.</p> <p><b>Title Page:</b> Changed the EIB Chief from Danny France to the Field Services Branch Chief John Deatruck, and the Field Quality Manager from Bobby Lewis to Hunter Johnson.</p> <p><b>Section 2.2:</b> Figure 6 modified for clarity.</p> <p><b>Section 3.3:</b> Use of overtopping cell described consistent with current practice.</p>	April 26, 2017
<p>SESDPROC-113-R1, <i>Field Measurement of Oxidation-Reduction Potential (ORP)</i>, replaces SESDPROC-013-R0</p>	January 29, 2013
<p>SESDPROC-113-R0, <i>Field Measurement of Oxidation-Reduction Potential (ORP)</i>, Original Issue</p>	August 7, 2009



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# **1 General Information**

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## **1.1 Purpose**

This document describes procedures, methods and considerations to be used and observed when conducting field Oxidation-Reduction Potential (ORP) measurements in aqueous environmental media, including groundwater, surface water and certain wastewater. The measurement of soil ORP is a non-standard measurement and procedures should be developed on a project-specific basis.

## **1.2 Scope/Application**

This document describes procedures generic to all ORP measurement methods to be used by Science and Ecosystem Support Division (SESD) field personnel when collecting and handling samples in the field. On the occasion SESD personnel determine that any of the procedures described in this section are inappropriate, inadequate or impractical and that another procedure must be used to obtain an ORP measurement, the variant procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

## **1.3 Documentation/Verification**

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD local area network (LAN). The Document Control Coordinator (DCC) is responsible for ensuring the most recent version of the procedure is placed on the SESD LAN and for maintaining records of review conducted prior to its issuance.

## **1.4 References**

Faulkner, S.P., W.H. Patrick, Jr., and R.P. Gambrell. 1989. Field techniques for measuring wetland soil parameters. *Soil Sci. Soc. Am. J.* 53:883-890.

Megonigal, J.P., W.H. Patrick, Jr., and S.P. Faulkner. 1993. Wetland identification in seasonally flooded forest soils: soil morphology and redox dynamics. *Soil Sci. Soc. Am. J.* 57:140-149.

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Stumm, W. and J.J. Morgan. 1981. Aquatic chemistry: an introduction emphasizing chemical equilibria in natural waters, 2nd Ed. John Wiley & Sons, New York. USA.

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USEPA. 2007. Safety, Health and Environmental Management Program Procedures and Policy Manual. Science and Ecosystem Support Division, Region 4, Athens, GA.

Wikipedia entry. Reduction Potential. [http://en.wikipedia.org/wiki/Reduction\\_potential](http://en.wikipedia.org/wiki/Reduction_potential). Retrieved April 2, 2009.

## **1.5 General Considerations**

### ***1.5.1 Safety***

Proper safety precautions must be observed when verifying or calibrating instruments for measurement of Oxidation-Reduction Potential. Refer to the SESD Safety, Health and Environmental Management Program Procedures and Policy Manual (most recent version) and any pertinent site-specific Health and Safety Plans (HASP) for guidelines on safety precautions. These guidelines should be used to complement the judgment of an experienced professional.

Reagents commonly used in the preparation of ORP calibration standards are toxic and require care when handling. When using this procedure, avoid exposure to these materials through the use of protective clothing, eye wear and gloves. Safety precautions when handling and preparing verification solutions should include gloves and eyewear to prevent dermal and eye contact, and a mask to avoid inhaling dust particles when handling dry materials. Vigorous flushing should be used if the reagents or solutions come in contact with skin or eyes. Following is specific information on commonly used solutions. The application of the solutions is described in detail in Section 3.1, Standard Solutions, of this procedure.

- Quinhydrone (CAS# 106-34-3) is a skin and respiratory irritant and is poisonous if ingested. Safety precautions when handling quinhydrone should include gloves to prevent dermal contact and a mask to avoid inhaling dust particles when mixing dry

material to prepare calibration standards. Vigorous flushing should be used if concentrated material comes in contact with skin or eyes.

- Zobell's solution is also an irritant and toxic if ingested. The same handling precautions apply when mixing and using Zobell's solution as when using quinhydrone. Zobell's reacts with acid to form harmful byproducts, including hydrocyanide gas.
- Light's solution contains ferro- and ferric-cyanide compounds in sulfuric acid. The components are toxic and burns are possible from contact with this solution.
- Potassium iodide solutions have lower toxicity than most calibration solution options. General ingestion, skin contact, and eye contact precautions apply.

Unused quinhydrone, Zobell's, Light's or other calibration reagents and solutions should be returned to SESD for disposal in accordance with the SESD Safety, Health, and Environmental Management Plan (SHEMP).

### ***1.5.2 Records***

Documentation of field activities is done in a bound logbook. All records, including a unique, traceable identifier for the instrument, should be entered according to the procedures outlined in the SESD Operating Procedure for Logbooks (SESDPROC-010, most recent version) and the SESD Operating Procedure for Equipment Inventory and Management, (SESDPROC-108, most recent version).

All field ORP measurements pertinent to the sampling event should be recorded in the field logbook for the event as outlined in the SESD Operating Procedure for Logbooks (SESDPROC-010, most recent version), or managed electronically with appropriate backups as described in SESD Operating Procedure for Control of Records (SESDPROC-002, most recent version).

### ***1.5.3 Shipping***

Shipped material shall conform to all U.S. Department of Transportation (DOT) rules of shipment found in Title 49 of the Code of Federal Regulations (49 CFR parts 171 to 179), and/or International Air Transportation Association (IATA) hazardous materials shipping requirements found in the current edition of IATA's Dangerous Goods Regulations.

All shipping documents, such as bills of lading, will be retained by the project leader and stored in a secure place.

## 2 Background

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### 2.1 General

Oxidation is the process of liberating electrons or gaining oxygen. Examples of oxidation include conversion of elemental iron to rust, elemental sulfur to sulfate, and elemental hydrogen to water (Pankow 1991). Reduction is the process of gaining electrons resulting in the charge on some atomic unit in the species to be reduced. Oxidation-reduction potential (ORP) or redox potential (hereafter, referred to as redox) is a measure of the intensity or activity of an aqueous environment or soil to mediate reactions of important elements in biological systems (e.g., O, N, Mn, Fe, S, and C) and other metallic elements.

Considerable confusion arises on the use of the terms oxidation and reduction as they apply to the media under study. The following introduction reproduced from an online 'Wikipedia' article on the topic lucidly explains their relationship in ORP measurement:

**Reduction potential** (also known as **redox potential, oxidation / reduction potential** or **ORP**) is the tendency of a chemical species to acquire electrons and thereby be reduced. Each species has its own intrinsic reduction potential; the more positive the potential, the greater the species' affinity for electrons and tendency to be reduced.

In aqueous solutions, the reduction potential is the tendency of the solution to either gain or lose electrons when it is subject to change by introduction of a new species. A solution with a higher (more positive) reduction potential than the new species will have a tendency to gain electrons from the new species (i.e. to be reduced by oxidizing the new species) and a solution with a lower (more negative) reduction potential will have a tendency to lose electrons to the new species (i.e. to be oxidized by reducing the new species). Just as the transfer of hydrogen ions between chemical species determines the pH of an aqueous solution, the transfer of electrons between chemical species determines the reduction potential of an aqueous solution. Like pH, the reduction potential represents an intensity factor. It does not characterize the capacity of the system for oxidation or reduction, in much the same way that pH does not characterize the buffering capacity.

In short, a numerically positive redox potential or ORP represents an environment conducive to the oxidation of an introduced substance by reduction of the original media.

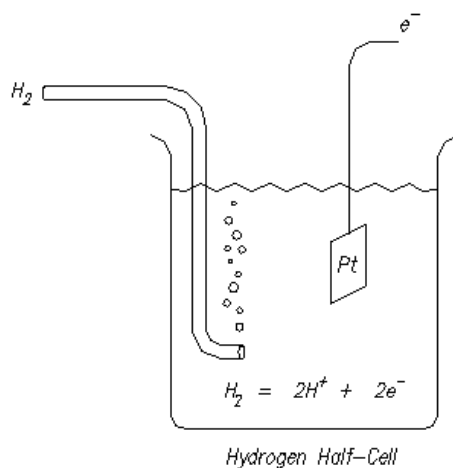
## 2.2 Instrumentation

ORP measurement systems are a practical implementation of electrochemical cells, which use metal electrodes in a solution to generate an electric current or voltage. If a platinum electrode is immersed in water with hydrogen bubbled into the solution, the  $H_2$  is oxidized as follows:



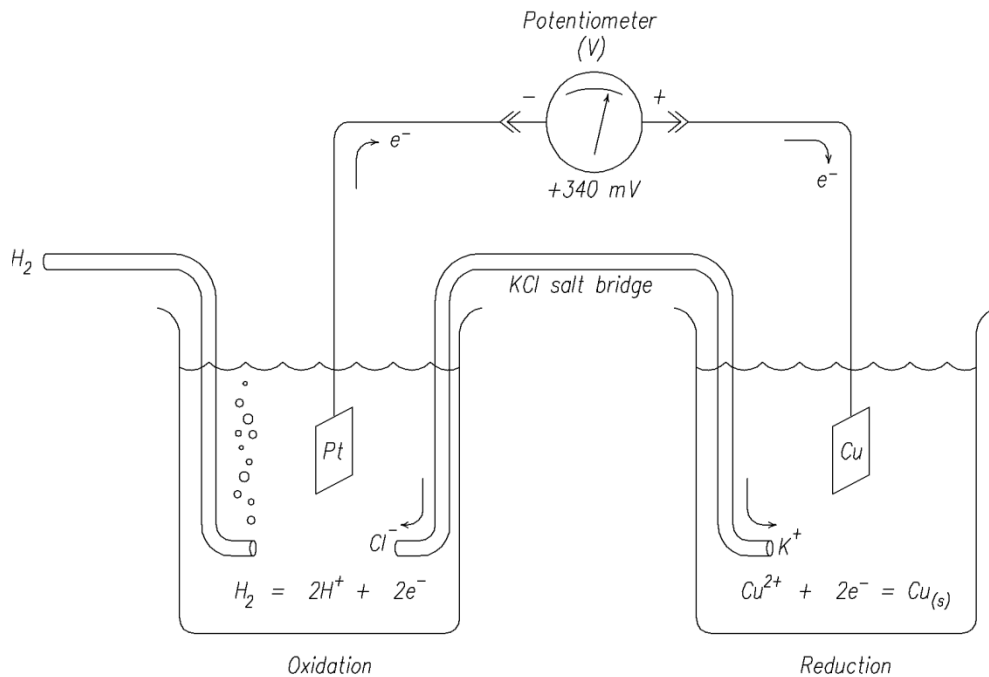
In the electrochemical half-cell illustrated below in Fig.1, hydrogen gas oxidizes to hydrogen ions and free electrons, comprising an oxidation-reduction couple. This couple reaches an equilibrium state that maintains the reference potential of the electrode. The electric potential develops on the wire connected to the platinum electrode, but is difficult to measure in practice in the isolated half-cell. However, when used in a complete electrochemical cell, the cell illustrated is used as a reference to measure other half-cells against, and is called a Standard Hydrogen Electrode (SHE).

**Figure 1**



If, as shown in Figure 2, a SHE is connected with a salt bridge to a second half-cell in which a reduction reaction is taking place, the electric potential between the two cells can be measured. In the case shown, the potential of the right cell will be +0.34 Volts in reference to the standard hydrogen electrode on the left. This would be represented as an Oxidation Reduction Potential (ORP) of +340mV on the hydrogen scale, or simply as  $E_h = +340mV$ .

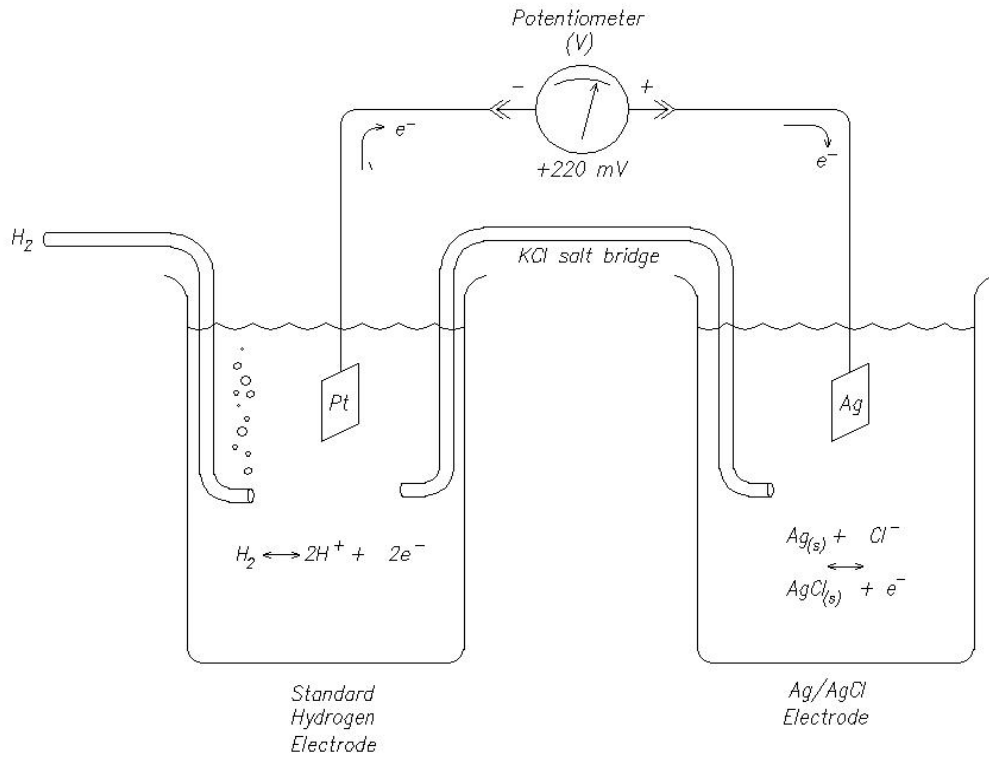
**Figure 2**



In field practice, the hydrogen electrode is difficult to reproduce. To conduct field measurements, a reference electrode is needed that is simple to maintain and will generate a potential that can be referenced to the standard hydrogen electrode. These requirements are met by the Saturated Calomel Electrode (SCE) and the Silver/Silver Chloride Electrode (SSCE - the SSCE is also commonly identified as an Ag/AgCl electrode). The SCE contains a small amount of elemental mercury, and while useful for certain applications, would rarely be used at SESD. The SSCE or Ag/AgCl electrode is generally used as the reference cell in SESD instrumentation.

In Figure 3 below, a SHE is connected to an Ag/AgCl electrode. In this example of an electrochemical cell, both cells reach an equilibrium potential. At that equilibrium state, the potential of the Ag/AgCl cell is 220mV more positive than the standard hydrogen electrode.

**Figure 3**



This half-cell potential of the Ag/AgCl electrode in reference to the SHE is used to convert measurements taken with an Ag/AgCl reference back to the hydrogen scale. While the laboratory Ag/AgCl half-cell shown has a potential of +220mV, practical reference cells have varying potentials based on temperature and filling solutions as shown in Table 1 below.

**Table 1**

**Half-cell Potential of Ag/AgCl reference electrode**

derived from USGS NFM, Table 6.5.2 (9/2005)

T(°C)	Molarity of KCl filling solution			
	3M	3.3M*	3.5M	Sat/4M
10	220	217	215	214
15	216	214	212	209
20	213	210	208	204
25	209	207	205	199
30	205	203	201	194
35	202	199	197	189
40	198	195	193	184

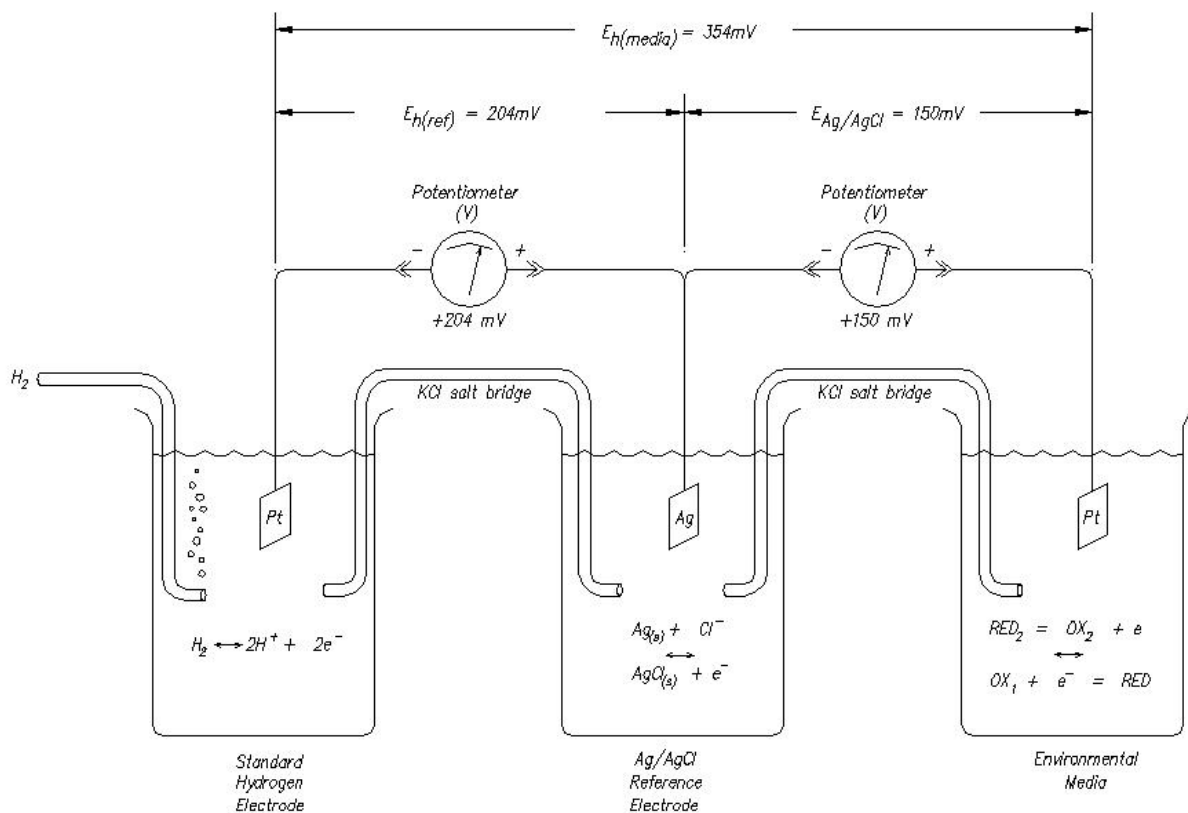
\*interpolated value



Note: YSI sondes and Thermo electrodes typically use 4M KCl filling solutions. Eureka sondes typically use 3.3M KCl filling solutions.

In Figure 4, below, the relationship between a hydrogen electrode, a reference electrode, and a platinum sensing electrode in an arbitrary media is shown. In this case, the ORP of the media in reference to the silver/silver chloride electrode is 150mV. To obtain Eh, the potential of the reference electrode in relation to a hydrogen electrode is added to the potential of the sensing electrode in relation to the reference electrode. In practice, the potential of the reference electrode in relation to a hydrogen electrode is not measured, but obtained from Table 1 above.

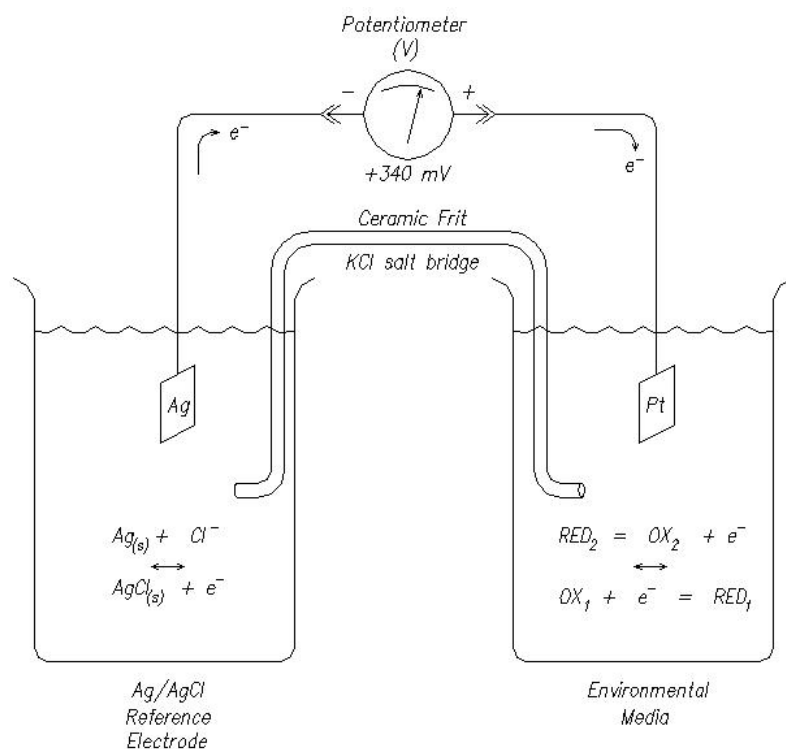
**Figure 4**



In Figure 5 below, a field instrument is represented as separate electrochemical cells. The

Ag/AgCl reference electrode uses a ceramic frit or other means to provide the essential salt bridge to the environmental media. The platinum sensing electrode is immersed in the environmental media and connected internally in the instrument to measure the potential (voltage) between the two electrodes.

**Figure 5**



In this illustration, the ORP is measured as 340 mV. This measurement is made in reference to the Ag/AgCl reference electrode and would be reported as such, or as  $E_{\text{Ag/AgCl}} = 340\text{mV}$ .

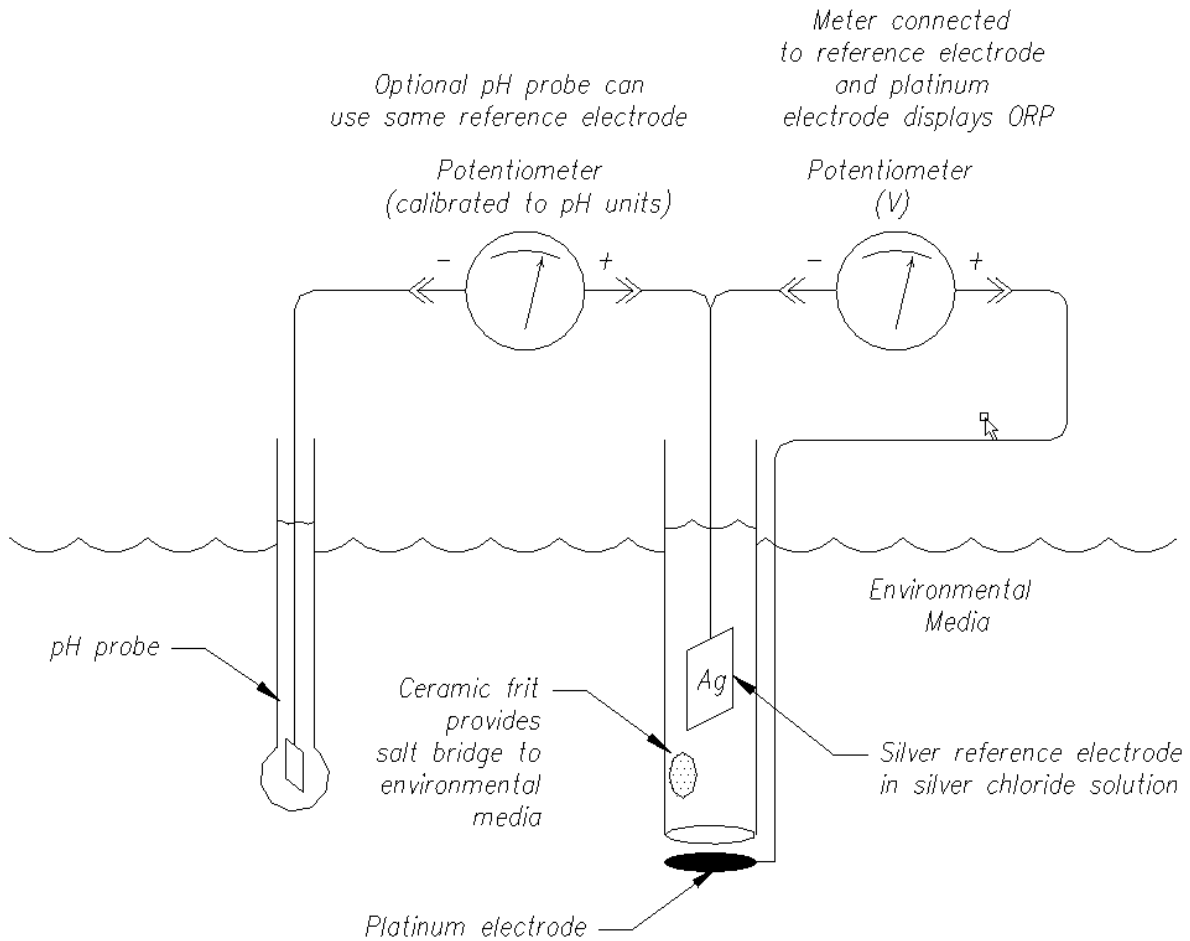
In some cases it will be desirable to report the reading on the hydrogen scale, or Eh. To do so, the potential of the reference electrode against the SHE, obtained from Table 1, is added to  $E_{\text{Ag/AgCl}}$ . For our example:

$$\begin{array}{rcl} 340 \text{ mV} & \text{Measured ORP } (E_{\text{Ag/AgCl}}) \text{ of sample} & \\ + \quad \underline{204 \text{ mV}} & \text{Eh of Ag/AgCl electrode (ORP of Ag/AgCl electrode referenced to SHE)} & \\ \hline 544 \text{ mV} & \text{Eh of sample} & \end{array}$$

Both the +340 mV field reading and the adjusted +544 mV Eh can properly be referred to as ORP results. It is only through specifying the reference scale that the ambiguity can be eliminated.

In Figure 6, below, the theoretical cells shown above have been configured as a practical field instrument. The salt bridge is commonly provided by a ceramic frit connecting the environmental media to the reference electrode. In multi-parameter sondes, the pH probe commonly uses the same reference electrode as the ORP probe.

**Figure 6**



## Redox Chemistry

In acid-base chemistry, the pH of a system is defined as the negative logarithm of the hydrogen ion activity (simplified in practice to the hydrogen ion concentration):

$$\text{pH} = -\log \{H^+\}$$

Similarly, Pankow (1991) described the negative logarithm of the electron activity (pe) as the master variable for describing the equilibrium position for all redox couples in a given system:

$$\text{pe} = -\log \{e^-\}$$

It can be shown (Pankow) that pe is related to Eh by

$$E_H = \text{pe} * (2.303 * R * T) / F$$

Where:

$$R = \text{gas constant} = 8.314 \text{ J K}^{-1} \text{ mol}^{-1}$$

$$T = \text{temperature, } ^\circ\text{K}$$

$$F = \text{Faraday constant} = 96.485 * 10^3 \text{ C mol}^{-1}$$

At 25°C (298°K) this simplifies to

$$E_H = \text{pe} * 0.05916$$

And

$$\text{pe} = E_H / 0.05916$$

According to Faulkner et al. (1989) redox is a quantitative measure of electron availability and is indicative of the intensity of oxidation or reduction in both chemical and biological systems. When based on a hydrogen scale, redox ( $E_H$ ) is derived from the Nernst Equation (Stumm and Morgan 1981):

$$E_H = E_H^{\circ} + \frac{2.303 RT}{nF} \log \left( \frac{\{ox\}^{n_i}}{\{red\}^{n_j}} \right)$$

Where:

$$E_H^{\circ} = \text{potential of reference, mV}$$

$$R = \text{gas constant} = 81.987 \text{ cal deg}^{-1} \text{ mole}^{-1}$$

$$T = \text{temperature, } ^\circ\text{K}$$

$$n = \text{number of moles of electrons transferred}$$

$$F = \text{Faraday constant} = 23.061 \text{ cal/mole-mv}$$

$$\{ox\} \text{ and } \{red\} = \text{activity of the oxidants and reductants, respectively}$$

## 2.4 Applications

When interpreted properly, redox combined with other conventional water quality parameters is useful in developing a more complete understanding of water chemistry. Several applications of redox are identified below:

1. Redox could be viewed as an extension of the oxygen scale. In this model, the DO probe spans the aerobic scale and the redox probe extends that scale to measure anaerobic conditions. Inferences to geochemistry and chemical speciation can be made from the oxidative state of the system. Application to metal sequestration, metal-iron, -sulfide, -methane complexation, and the subsequent bioaccumulation potential is possible.
2. Redox can be used to identify anaerobiosis at or near the water column and sediment interface in streams, lakes, and estuaries.
3. Redox may be useful in determination of stream jurisdiction and wetland delineation in that it can indicate conditions of soil saturation.
4. Based on redox, a pe (or EH) vs. pH stability diagram can be developed to aid in nutrient exchange studies including the timing, release, and partitioning of important water and sediment quality pollutants such as nitrogen and phosphorus species. Most importantly, redox can be used to address error associated with chamber-effect during closed chamber measurements of the water-sediment interface. Redox probes placed inside the contact chamber and inserted approximately ten centimeters into the underlying sediment can be used to monitor changes in sediment redox caused by the chamber, and steps can be taken to reduce chamber-effect.
5. Redox may be useful in establishing water and sediment quality standards applicable to wetlands.
6. Redox is used to assess the potential of a groundwater system to support various in situ reactions with contaminants, such as reductive dechlorination of chlorinated solvents.
7. Redox can provide a useful indicator of conditions that might compromise the performance of Clark-type dissolved oxygen (DO) probes. In general, anaerobic conditions occur at a redox range of +150 mV to +300 mV (pH-dependent and adjusted to hydrogen reference electrode). When redox drops below this level, DO measurements as determined with a Clarke-type probe are highly suspect as the semi-permeable membrane does not discriminate between partial O<sub>2</sub> and sulfides. Consequently, the meter may be reading sulfides.

## 2.5 Limitations

In most environmental media, redox reactions will not reach equilibrium due to low concentrations or multiple redox species. Consequently, redox measurements can generally be considered semi-quantitative in environmental media, unless certain conditions exist.

The USGS in the Interferences and Limitations Section 6.5.3A of their National Field Manual succinctly describe some of the issues encountered in the application of ORP measurements. This section is reproduced here, unedited:

### 6.5.3.A INTERFERENCES AND LIMITATIONS

*Measurements should not be carried out without an awareness of the interferences and limitations inherent in the method.*

- *Organic matter and sulfide may cause contamination of the electrode surface, salt bridge, or internal electrolyte, which can cause drift or erratic performance when reference electrodes are used (American Public Health Association and others, 2001).*
- *Hydrogen sulfide can produce a coating on the platinum electrode that interferes with the measurement if the electrode is left in sulfide-rich water for several hours (Whitfield, 1974; Sato, 1960).*
- *The platinum single and combination redox electrodes may yield unstable readings in solutions containing chromium, uranium, vanadium, or titanium ions and other ions that are stronger reducing agents than hydrogen or platinum (Orion Research Instruction Manual, written commun., 1991).*
- *Do not insert redox electrodes into iron-rich waters directly after the electrode(s) contact ZoBell's. An insoluble blue precipitate coats the electrode surface because of an immediate reaction between ferro- and ferricyanide ions in ZoBell's with ferrous and ferric ions in the sample water, causing erratic readings.*

*Many elements with more than one oxidation state do not exhibit reversible behavior at the platinum electrode surface and some systems will give mixed potentials, depending on the presence of several different couples (Barcelona and others, 1989; Bricker, 1982, p. 59–65; Stumm and Morgan, 1981, p. 490–495; Bricker, 1965, p. 65). Methane, bicarbonate, nitrogen gas, sulfate, and dissolved oxygen generally are not in equilibrium with platinum electrodes (Berner, 1981).*

#### **TECHNICAL NOTE:**

*Misconceptions regarding the analogy between Eh (pe) and pH as master variables and limitations on the interpretation of Eh measurements are explained in Hostettler (1984), Lindberg and Runnells (1984), Thorstenson (1984), and Berner (1981). To summarize:*

*(1) Hydrated electrons do not exist in meaningful concentrations in most aqueous systems—in contrast, pH represents real activities of hydrated protons. Eh may be expressed as pe (the negative logarithm of the electron activity), but conversion to pe offers no advantage when dealing with measured potentials.*

*(2) Do not assume that redox species coexist in equilibrium. Many situations have been documented in which dissolved oxygen coexists with hydrogen sulfide, methane, and ferrous iron.*

- The practicality of Eh measurements is limited to iron in acidic mine waters and sulfide in waters undergoing sulfate reduction.*

- Other redox species are not sufficiently electroactive to establish an equilibrium potential at the surface of the conducting electrode.*

*(3) A single redox potential cannot be assigned to a disequilibrium system, nor can it be assigned to a water sample without specifying the particular redox species to which it refers. Different redox elements (iron, manganese, sulfur, selenium, arsenic) tend not to reach overall equilibrium in most natural water systems; therefore, a single Eh measurement generally does not represent the system.*

## 3 Methodology

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### 3.1 Standard Solutions

Care should be taken not to contaminate standards and samples and to verify the expiration date of all standards prior to use. All meters should be verified or calibrated according to the manufacturer's procedures.

Standard solutions for calibration and verification should be selected to meet project requirements. SESD generally maintains a stock of Zobell's solution suitable for most projects. The characteristics and use of the common standard solutions are described below.

- Zobell's solution contains potassium ferri- and ferro- cyanide compounds. The solution is available as prepared solutions or premeasured reagents for mixing by the user. Zobell's has moderate toxicity but will react with acid to form harmful byproducts, including hydrocyanide gas. It has a shelf life ranging from several days to several months depending on the manufacturer. Stock and working solutions of Zobell's should be stored in dark bottles due to its light sensitivity.
- Quinhydrone solutions are mixed at the time of use by adding quinhydrone to pH 4 or pH 7 buffers. At 25°C, the  $E_h$  of quinhydrone pH 4 and pH 7 verification solutions are 462mV and 285mV respectively. An advantage of quinhydrone solutions is that they offer a span of calibration points that may be appropriate for particular applications. Quinhydrone is a lightly 'poised' solution in that it offers less driving force towards the calibration point: a compromised instrument is more likely to be revealed in a quinhydrone calibration. A quinhydrone calibration/verification solution is created by adding 10g of quinhydrone to 1L of pH 4 or pH 7 buffer solution (ASTM D1498). The solutions are mixed on a magnetic mixing plate for a minimum of 15 minutes to create a saturated solution with undissolved crystals remaining. Quinhydrone solutions are usable for 8 hrs from the time of mixing.
- Light's solution consists of ferrous and ferric ammonium sulphate in sulphuric acid. The solution would rarely be used at SESD due to its high acidity and associated handling difficulty. Spent solutions with a pH<2 would be regulated as a hazardous waste. Light's is a highly poised solution that may allow a marginally functioning electrode to pass calibration.
- A prepared potassium iodide solution is available which has low toxicity and a long shelf life. The solution may stain clothing or surfaces if spilled.



## 3.2 Verification and Calibration

ORP instruments may be **verified** or **calibrated**, depending on the application. The approach chosen should be selected based on project needs and information presented in Section 2.4., Limitations. Standard laboratory practice in making ORP measurements is to **verify** the accuracy of the instrument prior to use, and this practice should be followed when true quantitative results are required. In a **verification**, the instrument in its direct-reading mode is checked against a standard solution in a pass/no-pass test, and no corrections are applied to subsequent measurements. In most applications, the ORP information is used semi-quantitatively and for these applications, the instruments may be **calibrated** to the standard solutions. In an instrument **calibration**, the instrument probe is placed in the standard solution and the difference between the standard measurement and the known ORP value of the standard is used by the instrument to make adjustments to the subsequent measurements.

In **verification** of an ORP instrument, the instrument is set to absolute mV reading mode or the internal calibration offset is zeroed out. The instrument probe should then be placed in the standard solution and the reading verified to fall within +/-10mV of the predicted reading for the standard. Instruments with single-purpose electrodes are most suitable for this approach. If the instrument fails the verification, standard solution quality should be considered and instrument maintenance performed per the manufacturer's procedures.

In most SESD field practice, the end data use is semi-quantitative. In this case, the instruments can be **calibrated** to standard solutions appropriate for the project using the manufacturer's recommended procedure. One minute after the calibration, the instrument should display a stable reading within +/-10mV of the predicted reading. An instrument failing this test should be recalibrated to determine if the problem is inadequate equilibration time. In the event of continued instrument failure, aging or contamination of the standard solution should be considered. Subsequently the electrode should be serviced according to the manufacturer's procedures. Common service procedures include cleaning the platinum electrode with mild abrasives or acids and refilling or replacing the reference electrode.

Prior to a mobilization, all ORP instruments will be checked for proper operation and verified or calibrated against standard solutions. During the field mobilization, each instrument will be calibrated or verified prior to, and verified after, each day's use or deployment.

Even though it is not necessary to re-calibrate ORP instrument at regular intervals during the day, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an extreme temperature change or submersion of a filling solution port have impacted the instrument's performance. If an operational check is warranted, the field operator should follow the appropriate verification/calibration steps as described above.

The predicted ORP values of standard solutions will be obtained from the manufacturer of prepared solutions, literature, or appropriate values listed in this procedure. Care is in order, as the predicted ORP value is specific for the type of reference electrode used by the probe (either Ag/AgCl or calomel) and the molarity of the filling solution in the reference electrode. To use the

solution with another electrode or filling solution, the expected ORP readings for the solution should be converted to Eh for the probes intended for the solution as per the Reporting section of this procedure. Then a table can be compiled for the electrode in use by subtracting the  $E_{h,ref}$  for the electrode and filling solution in use. This will be done at the Field Equipment Center (FEC) for the solutions stocked.

Verification solutions should be managed per the manufacturer's directions regarding storage and handling. After instrument verification or calibration, the solution cannot be returned to the stock solution container, although a separate container of working solution can be maintained.

Spent solutions and working solutions should be returned from the field to the SESD laboratory for proper disposal by the SHEMP, or handled as directed by the SHEMP. Properly handled stock solutions may be returned to the FEC for use at that facility.

### 3.3 Measurement

ORP measurements should be conducted in a fashion that prevents the addition or loss of any potential oxidants or reductants. Results could be compromised by exposing the sample to air or allowing  $H_2S$  to off-gas from anoxic samples. Like dissolved oxygen measurements, ORP measurements should be conducted in situ or by using a flow-through cell evacuated of air (see the SESD Operating Procedure for Field Measurement of Dissolved Oxygen (SESDPROC-106, most recent version). Good results are commonly obtained with the use of an overtopping cell where the environmental media is pumped into the bottom of a narrow cup (generally field fabricated from a sample container) containing the instrument sensors. The sensors are continually flushed with fresh media as the cup is allowed to overflow. Caution should be exercised at very low flow rates where the media in the cup could potentially re-oxygenate.

When using multi-parameter probes for ORP measurements, the general guidelines for probe deployment described in the SESD Operating Procedure for Field Measurement of Dissolved Oxygen (SESDPROC-106, most recent version) and the SESD Operating Procedure for In situ Water Quality Monitoring (SESDPROC-111, most recent version) apply.

ORP probes must be operated and maintained in accordance with the manufacturer's instructions. Reference electrodes in multi-parameter probes may require regular filling or replacement. Single parameter ORP electrodes may require regular filling and operation in an upright position to assure that proper salt bridge flow is maintained. Platinum electrode surfaces are easily contaminated and polishing or cleaning of the electrodes should be performed as recommended by the manufacturer.

Measurements in field logbooks should be recorded to the nearest mV. The type of reference electrode in use and its filling solution should be recorded in at least one logbook as part of the field project records.

ORP is a temperature sensitive measurement, but ORP instruments are not temperature compensated. Consequently, the media temperature should always be recorded at the same time

as the ORP is recorded. Likewise, as ORP is often pH dependent, pH should also be recorded at the time of ORP measurement.

### 3.4 Reporting

In the absence of a specified reference scale, ORP data has no meaning. Therefore, the reference scale used should always be specified in reporting or discussing the ORP data. ORP measurements converted to a hydrogen scale can be reported as “E<sub>h</sub>”. Data reported as the direct field measurement without correction might be described as “ORP referenced to Ag/AgCl electrode” or “E<sub>Ag/AgCl</sub>”. The expectations of the data user should be ascertained or the measurements should be reported in both systems.

To apply corrections to obtain E<sub>h</sub> from the direct field measurement, the known half-cell potential of the reference electrode is added to the recorded field ORP value:

$$E_{h,sample} = ORP_{sample} + \text{half-cell potential of reference electrode}$$

The following table, reproduced from Section 2.2, presents the half-cell potential of a silver/silver chloride reference electrode at various temperatures and with various molarities of KCl filling solutions.

**Table 1**

**Half-cell Potential of Ag/AgCl reference electrode**

derived from USGS NFM, Table 6.5.2 (9/2005)

T(°C)	Molarity of KCl filling solution			
	3M	3.3M*	3.5M	Sat/4M
10	220	217	215	214
15	216	214	212	209
20	213	210	208	204
25	209	207	205	199
30	205	203	201	194
35	202	199	197	189
40	198	195	193	184

\*interpolated value

Note: YSI sondes and Thermo electrodes typically use 4M KCl filling solutions. Eureka sondes typically use 3.3M KCl filling solutions

Example:

A multi-parameter probe with a silver/silver chloride reference electrode and 4M KCl filling solution is used to record a stream ORP measurement of 146mV. The stream temperature is recorded as 15°C.

From the above table, the half-cell potential of an Ag/AgCl reference electrode filled with 4M KCl is 209mV at 15°C. Then:

$$E_{h,\text{sample}} = \text{ORP}_{\text{Ag/AgCl, sample}} + \text{half-cell potential of Ag/AgCl reference electrode}$$

$$E_{h,\text{sample}} = 146\text{mV} + 209\text{mV}$$

$$E_{h,\text{sample}} = 355\text{mV}$$

As noted in Section 3.3, Measurement, ORP measurements are sensitive to temperature, and may be sensitive to pH. As the instruments do not compensate for these parameters, ORP data should always be reported with the temperature and pH of the media at the time of measurement.

Final reporting values of Eh or ORP should be rounded to the nearest 10mV. The following spreadsheet formula can perform the rounding of an interim result located in spreadsheet cell 'A1':

$$=\text{INT}(A1/10+0.5)*10$$

<b>Region 4 U.S. Environmental Protection Agency Laboratory Services and Applied Science Division Athens, Georgia</b>	
<b>Operating Procedure</b>	
Title: <i>Field pH Measurement</i>	ID: LSASDPROC-100-R5
Issuing Authority: LSASD Field Branch Chief	
Review Issue Date: July 23, 2020	Review Due Date: July 23, 2024

### **Purpose**

This document describes procedures, methods and considerations to be used and observed when conducting field pH measurements in aqueous phase environmental media, including groundwater, surface water and certain wastewaters.

### **Scope/Application**

The procedures contained in this document are to be used by field personnel when measuring the pH of aqueous phase environmental media in the field. On the occasion that LSASD field personnel determine that any of the procedures described in this section cannot be used to obtain pH measurements of the media being sampled, and that another method must be used to obtain said measurements, the variant instrument and/or measurement procedure will be documented in the field logbook and subsequent investigation report, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

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## **1 General Information**

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### **1.1 Documentation/Verification**

This procedure was prepared by persons deemed technically competent by LSASD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on LSASD's local area network (LAN). The Document Control Coordinator is responsible for ensuring that the most recent version of the procedure is placed on LSASD's LAN and for maintaining records of review conducted prior to its issuance.

### **1.2 General Precautions**

#### **1.2.1 Safety**

Proper safety precautions must be observed when conducting field pH measurements. Refer to the LSASD Safety, Health and Environmental Management Program Procedures and Policy Manual (Most Recent Version) and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

#### **1.2.2 Procedural Precautions**

All field pH measurements pertinent to the sampling event should be recorded in the field logbook for the event. All records, including a unique, traceable identifier for the instrument, such as a property number or serial number, should be entered according to the procedures outlined in the LSASD Operating Procedure for Logbooks (LSASDPROC-010) and the LSASD Operating Procedure for Equipment Inventory and Management, (LSASDPROC-108). Care should be taken not to contaminate standards and samples and verify the expiration date of all standards prior to use. All meters should be calibrated, operated and maintained according to the manufacturer's specifications.

## **2 Quality Control**

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All pH meters will be maintained and operated in accordance with the manufacturer's instructions and the LSASD Operating Procedure for Equipment Inventory and Management (LSASDPROC-108). Before a meter is taken to the field, it will be properly calibrated or verified, according to Section 3.2 of this procedure, to ensure it is operating properly. These calibration and verification checks will be documented and maintained in a logbook.

The ambient temperature in the immediate vicinity of the meter should be measured and recorded in the field logbook to ensure the instrument is operated within the manufacturer's specified range of operating temperatures, although this is typically not necessary for ecological studies. For instruments that are deployed for *in-situ* measurements, the temperature of the medium being monitored should be measured and recorded in the logbook prior to deployment. *In-situ monitoring equipment may be utilized in unattended deployments where autonomous logging may preclude temperature measurement prior to deployment. Because in-situ instrumentation generally has a wide range of operating temperatures, the field investigator may utilize professional judgment in determining if the operating environment is suitable for unattended deployment.*

If at any time during a field investigation, it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

### **3 Field pH Measurement Procedures**

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#### **3.1 General**

pH is defined as the negative logarithm of the effective hydrogen-ion concentration. The ion selective pH electrode measures the difference in potentials between the two sides in a glass electrode. The circuit is closed through internal solutions of the electrode and the external solution that is being measured and the pH meter. As the electrode is immersed in the test solution the glass bulb senses the positive charged hydrogen ions as millivolts (mV). The pH meter measures the difference between an internal electrode and a reference electrode. This mV reading is then read by the meter and is displayed in pH units. For routine work, a pH meter accurate and reproducible to within 0.2 Standard Units (S.U.) is suitable. For NPDES compliance monitoring, the pH meter should be accurate and reproducible to within 0.1 S.U. Both meters should have a range of 0 to 14 S.U. and be equipped with a temperature-compensation adjustment. Modern pH meters usually have a protective housing around the glass bulb but are sensitive scientific instruments and should be handled with care. Most pH electrodes last from one to two years, depending on the deployment environment and if proper storage solution was used during periods of inactivity.

#### **3.2 Instrument Calibration**

Many brands of instruments are commercially available for the measurement of pH incorporating a wide variety of technologies. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate. At a minimum, a two-point calibration should be conducted to ensure the accuracy of the meter. The following are basic guidelines for calibration/verification and are provided as an example (procedure may vary based on the instrument used):



1. Verify the meter's internal temperature sensor (thermistor) against a National Institute of Standards and Technology (NIST) traceable thermometer and note any differences between the thermistor and the NIST-traceable thermometer in the logbook. If the temperatures do not agree within  $\pm 4^{\circ}\text{C}$ , the unit or probe must be repaired or replaced. Alternatively, if the meter can be used in a manual temperature compensation mode, the NIST-traceable thermometer may be used for temperature readings and the necessary corrections applied. Check and record the temperatures of the standards and the samples.
2. If the pH range of the sample is not known, the pH of the sample to be tested should be estimated either from historical data or by using a four-color pH indicator paper or equivalent. Using this information, calibrate the pH meter with the buffers that bracket the expected pH range. Buffer solutions are commonly pH 4, 7 and 10. It may be possible to configure the pH meter so that it can be standardized with buffers other than those in the default configuration. Note that buffer values are temperature specific (reading true at  $25^{\circ}\text{C}$ ) and be sure to input the correct buffer calibration value for the given temperature in step 3 below. Some pH probes are capable of Automatic Temperature Compensation (ATC) and will recognize the correct temperature corrected value of the calibration standard.
3. Immerse the probe in the required buffer solutions and record pre-cal values (pH 7 buffer is typically the first cal point). Then re-immers the probe to calibrate to the correct pH buffer value, also recording the post-cal value. Rinse the probe with de-ionized water and blot dry or otherwise remove excess rinse water between the different buffer solutions. Record the buffer values and temperatures used to calibrate the meter.
4. Rinse the probe with de-ionized water, blot dry or otherwise remove excess rinse water and immerse it into the appropriate buffer and read as a measurement. If the meter reads within  $\pm 0.2$  S.U. of the known value of the buffer (for general applications such as ecological studies) or  $\pm 0.1$  S.U. (for regulatory applications such as NPDES or drinking water programs), record the value indicated by the meter. If the meter is outside of the acceptable accuracy range, it should be recalibrated. If it is still outside of the acceptable accuracy range after the second calibration, the electrode and/or meter should be replaced.
5. Once the meter has been properly calibrated and verified (steps 1-4 above), it is ready for use. Rinse the probe with de-ionized water and store it according to manufacturer's recommendations. Certain instruments may require being left on until all measurements are performed and the results are recorded. When collecting measurements from grab samples, certain instrument manufacturers recommend that an intermediate check(s) be performed by periodically checking the meter against a known calibration buffers if used for extended periods ( $> 4$  hrs).
6. Unless the manufacturer indicates that the meter maintains its calibration after being turned off, meters must be re-calibrated if they are turned off during their period of use.

**Note:** If multi-parameter sondes are used, calibrate according to the manufacturer's specifications and procedural directions. Calibration procedures for sondes for *in-situ* monitoring may in some cases be different than those for field pH meters using open probes. Those procedures are documented in LSASD's SOP listed as: LSASDPROC-111-R4, In-Situ

## Water Quality Monitoring

### 3.3 Field Measurement Procedures

Measurements in the field may occur under several conditions, requiring various specific procedures. A pH probe should never be placed in an analytical sample to avoid cross-contamination, only sample aliquots should be used as a surrogate for sample pH measurements. Use of the word *sample* below implies that a sample aliquot has been collected.

#### 3.3.1 Grab Sample Measurements

These procedures should be followed when conducting field pH measurements of grab sample:

1. Collect a sample. If the meter's thermistor is to be used for the temperature of record for the measurement activity, the temperature should be read as soon as the reading stabilizes and prior to measuring the pH.

**Note 1a:** When the pH meter response is slow, unstable, or non-reproducible, it may be necessary to check the conductivity. If the conductivity is lower than 20 to 30  $\mu\text{mhos/cm}$ , it is permissible to add 1 ml of 1M potassium chloride solution per 100 ml of sample to improve response time for the probe. Recheck the pH and record.

**Note 1b:** If the pH measurements are to be used for RCRA regulatory purposes and when the pH approaches the alkaline end ( $\text{pH} \geq 11.0$ ) of the scale, the pH measurements should be made by a qualified analyst using laboratory quality equipment to control the sample at  $25^\circ\text{C} \pm 1^\circ\text{C}$ .

2. Immerse the lower part of the probe in the sample. Typically, in the field, the pH probe is not kept away from container bottom or sides during calibration, or during field readings in an overtopping cell, as it is not practical. End of day readings are also performed the same way. Allow ample time for the probe to equilibrate with the sample.
3. While suspending the probe in the sample container, record the pH.
4. Rinse the probe with de-ionized water and replace end cap if applicable. For longer term storage, place probe in the manufacturer's recommended storage solution.

#### 3.3.2 Overtopping Cell Measurements

Often during groundwater sampling, an overtopping cell may be used with purge water constantly flowing through the cell during purging. These procedures should be followed when conducting field pH measurements using an overtopping cell:

1. Immerse the bottom portion of the probe in the open-top container being used for purge water

flow-through. Allow it to equilibrate with the purge water and stabilize until the meter indicates that it is ready for readings. Readings may be recorded at certain timed intervals in the field, prior to collecting the sample for laboratory analysis.

2. When finished at one sampling station during the day and moving to the next, the protective end cap should be placed on the probe until ready for use again.

### 3.3.3 *In-Situ* Measurements

These procedures should be followed when conducting *in-situ* field pH measurements:

1. Place the probe/sonde into the media to be measured and allow the pH and temperature readings to stabilize. Once the readings have stabilized, record the measurements in the logbook.
2. When deploying meters for extended periods of time, ensure the measurement location is representative of average media conditions.

**Note:** If multi-parameter sondes are used for pH measurement, procedures such as for depth profiling of pH, may be different than for pH meters with open probes. Those procedures are documented in LSASD's SOP listed as: LSASDPROC-111-R4, In-Situ Water Quality Monitoring.

### 3.3.4 Sample Preservation Verification

When verifying the pH for sample preservation in a field sample collected for laboratory analysis, this procedure should be followed:

1. Pour a small amount of sample from bottle over a pH strip to determine if the sample has been preserved to the specified pH range; meters are not needed. Be sure to properly dispose of used pH strips, as contaminant level is likely unknown.

## 3.4 Operational Check

Even though it is not necessary to re-calibrate pH meters at regular intervals during the day, depending on the instrument, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an increase in temperature, have impacted the meter's performance. If an operational check is warranted, the following procedure should be followed to ensure that the performance of the meter has not changed.

1. While in use, periodically check the pH by rinsing the probe with de-ionized water, blot dry or

otherwise remove excess rinse water and immerse it into the appropriate buffer solution. If the measured pH differs by  $\geq 0.2$  S.U. or 0.1 S.U. (depending on the application) from the buffer solution, the meter must be re-calibrated.

A post-operation instrument verification check will be performed using the appropriate buffer(s) at the end of the day or after all measurements have been taken for a particular period of operation. These measurements must be recorded in the field logbook.

## References

LSASD Operating Procedure for Equipment Inventory and Management, LSASDPROC-108, Most Recent Version

LSASD Operating Procedure for Logbooks, LSASDPROC-010, Most Recent Version

United States Environmental Protection Agency (US EPA). 2001. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Science and Ecosystem Support Division (LSASD Athens, GA

USEPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 LSASD, Athens, GA, Most Recent Version.

## Revision History

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The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the LSASD Document Control Coordinator on the LSASD local area network (LAN).

History	Effective Date
<p>LSASDPROC-100-R5, <i>Field pH Measurement</i>, replaces SESDPROC-100-R4</p> <p><b>General:</b> Corrected any typographical, grammatical, and/or editorial errors. Updated document format and naming convention. Replaced SESD and FSB with LSASD and ASB throughout due to Agency Re-alignment.</p> <p>Added language to Section 3.2 to specify that pH readings are temperature dependent and include steps for entering the current temperature when calibrating meters. Included language for documenting pre cal and post calibration readings.</p> <p>Section 3.3- clarified that pH meters should not be placed in samples to prevent contamination. Added Section 3.3.2 for performing pH measurement using overtopping cells. Added language for long term storage of probes to Section 3.3.1.3</p> <p>Updated References</p>	<p>July 23, 2020</p>
<p>LSASDPROC-100-R4, <i>Field pH Measurement</i>, replaces LSASDPROC-100-R3</p> <p><b>General:</b> Corrected any typographical, grammatical, and/or editorial errors.</p> <p><b>Title Page:</b> Changed the Field Quality Manager from Bobby Lewis to Hunter Johnson. Updated cover page to represent LSASD reorganization. John Deatrick was not listed as the Chief of the Field Services Branch</p>	<p>December 16, 2016</p>
<p>LSASDPROC-100-R3, <i>Field pH Measurement</i>, replaces LSASDPROC-100-R2</p>	<p>January 29, 2013</p>
<p>LSASDPROC-100-R2, <i>Field pH Measurement</i>, replaces LSASDPROC-100-R1</p>	<p>June 13, 2008</p>
<p>LSASD-100-R1, <i>Field pH Measurement</i>, replaces LSASDPROC-100-R0</p>	<p>November 1, 2007</p>
<p>LSASDPROC-100-R0, <i>Field pH Measurement</i>, Original Issue</p>	<p>February 05, 2007</p>

<b>Region 4</b> <b>U.S. Environmental Protection Agency</b> <b>Laboratory Services and Applied Science Division</b> <b>Athens, Georgia</b>	
<b>OPERATING PROCEDURE</b>	
Title: Field Specific Conductance Measurement	ID: LSASDPROC-101-R7
Issuing Authority: LSASD Field Branch Chief	
Effective Date: May 5, 2020	Review Date: May 5, 2023

### **Purpose**

This document describes procedures, methods and considerations to be used and observed when conducting field specific conductance measurements in aqueous phase environmental media, including groundwater, surface water and certain wastewaters.

### **Scope/Application**

The procedures contained in this document are to be used by field investigators when measuring the specific conductance of aqueous phase environmental media in the field. On the occasion that LSASD field investigators determine that any of the procedures described in this section cannot be used to obtain specific conductance measurements of the media being sampled, and that another method must be used to obtain said measurements, the variant instrument and/or measurement procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

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## **1 General Information**

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### **1.1 Documentation/Verification**

This procedure was prepared by persons deemed technically competent by LSASD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the LSASD local area network (LAN). The Document Control Coordinator is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

### **1.2 General Precautions**

#### **1.2.1 Safety**

Proper safety precautions must be observed when conducting field specific conductance measurements. Refer to the LSASD Safety, Health and Environmental Management Program Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

#### **1.2.2 Procedural Precautions**

All field specific conductance measurements pertinent to the sampling event, including a unique, traceable identifier for the instrument, such as a property number or serial number, should be recorded in the field logbook for the event. All records should be entered according to the procedures outlined in the LSASD Operating Procedure for Logbooks (LSASDPROC-010, most recent version).

Care should be taken to not contaminate standards and samples and verify the expiration date of all standards prior to use. All meters should be calibrated, operated and maintained according to the manufacturer's specifications.

## **2 Quality Control**

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All specific conductance meters will be maintained and operated in accordance with the manufacturer's instructions and the LSASD Operating Procedure for Equipment Inventory and Management (LSASDPROC-108, most recent version). Before a meter is taken to the field, it will be properly calibrated or verified, according to Section 3.2 of this procedure, to ensure it is operating properly. These calibration and verification checks will be documented and maintained in a logbook.

The ambient temperature in the immediate vicinity of the meter should be measured and recorded in the field logbook to ensure the instrument is operated within the manufacturer's specified range of operating temperatures. For instruments that are deployed for in-situ measurements, the temperature of the medium being monitored should be measured and recorded in the logbook prior to deployment. *In-situ monitoring equipment may be utilized in unattended deployments where autonomous logging may preclude*



*temperature measurement prior to deployment. Because in-situ instrumentation generally has a wide range of operating temperatures, the field investigator may utilize professional judgment in determining if the operating environment is suitable for unattended deployment.*

If at any time during a field investigation it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

### **3 Field Specific Conductance Measurement Procedures**

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#### **3.1 General**

Specific conductance is a measure of the ability of an aqueous solution to conduct an electric current and is customarily reported in microsiemens per centimeter ( $\mu\text{S}/\text{cm}$ ) or micromhos per centimeter ( $\mu\text{mhos}/\text{cm}$ ) at  $25^{\circ}\text{C}$ . It is important to note that if the specific conductance measurements are for NPDES reporting purposes, the meter and conductivity cell should be verified by comparing against a laboratory meter with a platinum-electrode type conductivity cell.

#### **3.2 Instrument Calibration and Verification**

Many brands of instruments are commercially available for the measurement of specific conductance incorporating a wide variety of technologies. The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate.

Conductivity is affected by temperature; therefore, for instruments that do not automatically compensate for temperature, the user should document temperature first so that appropriate adjustments can be made in accordance with the manufacturer's instructions and/or method. The following are basic guidelines for calibration/verification and are provided as an example:

1. Verify the meter's internal temperature sensor (thermistor) against a National Institute of Standards and Technology (NIST) traceable thermometer and note any differences between the thermistor and the NIST-traceable thermometer in the logbook. If the temperatures do not agree within  $\pm 4^{\circ}\text{C}$ , the unit must be repaired or replaced. Alternatively, if the meter can be used in a manual temperature compensation mode, the NIST-traceable thermometer may be used for temperature readings and the necessary corrections applied. Check and record the temperatures of the standards and the samples.
2. Rinse the probe with de-ionized water and blot dry before conducting the following calibration and verification checks.
3. Immerse the probe in the first standard solution and calibrate or verify the meter against that solution. Fresh standards should be used for each calibration. After the initial standard, calibrate and/or verify the meter using additional standards, as appropriate. Rinse the probe with de-ionized water and blot dry or otherwise remove excess rinse water between the

different standards. Record the standard values/temperatures used to calibrate or verify the meter.

Note: Some instruments require that calibration standards reflect the anticipated specific conductance of the media being measured.

4. Some meters will auto-recognize standards during calibration. For example, the Thermo Star Series meter will auto-recognize standards 1413  $\mu\text{S}/\text{cm}$ , 100  $\mu\text{S}/\text{cm}$  and 12.9  $\text{mS}/\text{cm}$ . If the meter is calibrated in a manner where it does not auto-recognize the standard, and the meter is not accurate to  $\pm 10\%$  of the standard solution(s) known values, the meter or probe should be repaired or replaced. If this condition can be corrected by adjusting the cell constant of the probe, refer to the instruction manual and make the adjustment. Note: The Thermo Star A325 units primarily used for ground water investigations should be set to Temperature Correction mode nLFn for best results.
5. After calibration is complete, place the probe back into the calibration standard used and record a post-calibration reading. Record a post calibration reading for each standard used. If the meter is not accurate to within  $\pm 10\%$  of the standard solution(s) known values, it should be recalibrated. If it is still outside of the acceptable accuracy range after the second calibration, the probe and/or meter should be replaced.
6. Once the meter has been properly calibrated and verified (steps 1-5 above), it is ready for use. Rinse the probe with de-ionized water and store it in the manufacturer's recommended storage solution. Certain meters may require that the instrument be left on until all sample measurements are performed and the results are recorded. When collecting measurements from grab samples, certain instrument manufacturers recommend that an intermediate check(s) be performed by periodically checking the meter against the known calibration standards if used for extended periods ( $> 4$  hrs).

### 3.3 Sample Measurement Procedures

The following procedures should be followed when conducting field specific conductance measurements of grab samples:

1. Collect the sample, check and record its temperature.
2. Correct the instrument's temperature adjustment to the temperature of the sample (if required).
3. Immerse the probe in the sample keeping it away from the sides and bottom of the container. It is important that the center portion of the probe be wetted by the sample.
4. Allow meter to stabilize. Record the results in a logbook.
5. Rinse probe with de-ionized water.

The following procedures should be followed when conducting in-situ field specific conductivity measurements:

1. Place the probe into the media to be measured and allow the specific conductivity and temperature readings to stabilize. Once the readings have stabilized, record the measurements in the logbook.
2. When deploying meters for extended periods of time, ensure the measurement location is representative of average media conditions.

### **3.4 Operational Checks**

Even though it is not necessary to re-calibrate conductivity meters at regular intervals during the day, depending on the instrument, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an extreme temperature change, have impacted the meter's performance. If an operational check is warranted, the following procedures should be followed to ensure that the performance of the meter has not changed.

Check the conductivity meter with fresh conductivity standard. Rinse the conductivity probe with deionized water, blot dry or otherwise remove excess rinse water and immerse it into the appropriate conductivity standard. If the measured conductivity value is not within  $\pm 10\%$  of the standard, the probe should be re-calibrated. If the probe is still not within  $\pm 10\%$  of the standard, the probe should be repaired or replaced. These measurements must be recorded in the field logbook.

A post-operation instrument verification check should be performed using the appropriate standard(s) at the end of the day or after all measurements have been taken for a particular period of operation. These measurements must be recorded in the field logbook.

## References

LSASD Operating Procedure for Equipment Inventory and Management, LSASDPROC-108, Most Recent Version

LSASD Operating Procedure for Logbooks, LSASDPROC-010, Most Recent Version

United States Environmental Protection Agency (US EPA). 2001. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Laboratory Services & Applied Science Division (LSASD), Athens, GA

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 LSASD, Athens, GA, Most Recent Version

## Revision History

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The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the LSASD Document Control Coordinator on the LSASD local area network (LAN).

History	Effective Date
<p>LSASDPROC-101-R7 <i>Field Specific Conductance Measurement</i>, replaces SESDPROC-101-R6</p> <p><b>General:</b> Corrected any typographical, grammatical, and/or editorial errors. Changed references to Division Name to match current organization</p> <p><b>Cover Page:</b> Changed Names of Division and approving officials to reflect current organization. Section 3.2 added a reference to the appropriate temperature compensation setting for the Thermo Star A325.</p>	May5, 2020
<p>SESDPROC-101-R6, <i>Field Specific Conductance Measurement</i>, replaces SESDPROC-101-R5</p> <p><b>General:</b> Corrected any typographical, grammatical, and/or editorial errors. Throughout the document mention of quality system or SESD quality system was replaced with Field Branches Quality System or FBQS.</p> <p><b>Cover Page:</b> Omitted Hunter Johnson as an author. Updated cover page to represent SESD reorganization. John Deatrick was not listed as the Chief of the Field Services Branch.</p>	July 13, 2016
<p>SESDPROC-101-R5, <i>Field Specific Conductance Measurement</i>, replaces SESDPROC-101-R4</p>	August 30, 2012
<p>SESDPROC-101-R4, <i>Field Specific Conductance Measurement</i>, replaces SESDPROC-101-R3</p>	January 13, 2012
<p>SESDPROC-101-R3, <i>Field Specific Conductance Measurement</i>, replaces SESDPROC-101-R2</p>	August 12, 2011
<p>SESDPROC-101-R2, <i>Field Specific Conductance Measurement</i>, replaces SESDPROC-101-R1</p>	June 13, 2008
<p>SESDPROC-101-R1, <i>Field Specific Conductance Measurement</i>, replaces SESDPROC-101-R0</p>	November 1, 2007
<p>SESDPROC-101-R0, <i>Field Specific Conductance Measurement</i>, Original Issue</p>	February 05, 2007

**Region 4**  
**U.S. Environmental Protection Agency**  
**Science and Ecosystem Support Division**  
**Athens, Georgia**

**OPERATING PROCEDURE**

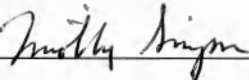
Title: **Field Turbidity Measurement**

**Effective Date:** July 27, 2017

**Number:** SESDPROC-103-R4

**Authors**


Name: Timothy Simpson  
Title: Environmental Scientist

Signature: 

Date: 07/25/17

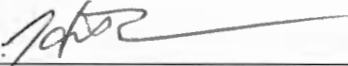
**Approvals**

Name: John Deatruck  
Title: Chief, Field Services Branch

Signature: 

Date: 7/25/17

Name: Hunter Johnson  
Title: Field Quality Manager, Science and Ecosystem Support Division

Signature: 

Date: 7/25/17

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History	Effective Date
<p>SESDPROC-103-R4, <i>Field Turbidity Measurement</i>, replaces SESDPROC-103-R3</p> <p><b>General:</b> Added to Section 3.6 to include application of various turbidity units and associated methods relative to various applications.</p> <p><b>Title Page:</b> Changed Enforcement and Investigations Branch to the Field Services Branch and changed the Chief from Danny France to John Deatrck. Changed Field Quality Manager from Bobby Lewis to Hunter Johnson.</p> <p><b>Section 1.4:</b> Added new references cited in Section 3.5</p> <p><b>Section 3.2:</b> Added reference to Section 3.5</p> <p><b>Section 3.3.1:</b> Added Table 1 outlining reporting requirements.</p> <p><b>Section 3.5:</b> Introduced different turbidity units associated with various methods and stated importance of using EPA approved methods for regulatory purposes. Also added Figure 1, a decision tree to assist project leaders in selecting the appropriate method to satisfy Data Quality Objectives, and Table 2, outlining technologies, associated units, application, and design.</p>	July 27, 2017
SESDPROC-103-R3, <i>Field Turbidity Measurement</i> , replaces SESDPROC-103-R2	January 29, 2013
SESDPROC-103-R2, <i>Field Turbidity Measurement</i> , replaces SESDPROC-103-R1	June 13, 2008
SESDPROC-103-R1, <i>Field Turbidity Measurement</i> , replaces SESDPROC-103-R0	November 1, 2007
SESDPROC-103-R0, <i>Field Turbidity Measurement</i> , Original Issue	February 05, 2007

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# **1 General Information**

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## **1.1 Purpose**

This document describes general and specific procedures, methods and considerations to be used and observed when conducting field turbidity measurements in aqueous phase environmental media, including groundwater, surface water and certain wastewaters.

## **1.2 Scope/Application**

The procedures contained in this document are to be used by field personnel when measuring turbidity of various, aqueous phase environmental media in the field. On the occasion that SESD field personnel determine that any of the procedures described in this section cannot be used to obtain turbidity measurements of the media being sampled, and that another method or turbidity measurement instrument must be used to obtain said measurements, the variant instrument and measurement procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products does not constitute endorsement or recommendation for use.

## **1.3 Documentation/Verification**

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD local area network (LAN). The Document Control Coordinator is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

## **1.4 References**

APHA (1992). Turbidity: Method 2130B. Standard Methods for the Examination of Water and Wastewater, 18<sup>th</sup> Edition, pp. 2-11.

ASTM International (2012). D7315-12 Standard test method for determination of turbidity above 1 turbidity unit in static mode: ASTM International, Annual Book of Standards, Water and Environmental Technology, v. 11.01, West Conshohocken, Pennsylvania.

SESD Operating Procedure for Equipment Inventory and Management, SESDPROC-108, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

USEPA (1993). Method 180.1: Determination of Turbidity by Nephelometry. Rev. 2.0. Environmental Systems Monitoring Laboratory, Office of Research and Development, Cincinnati, Ohio.

USEPA (2001). Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Science and Ecosystem Support Division (SESD), Athens, GA.

USEPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

USGS (2004). Office of Water Quality Technical Memorandum 2004.03: Revision of NFM Chapter 6, Section 6.7- Turbidity, available online at:  
<http://water.usgs.gov/admin/memo/QW/qw04.03.html>

USGS (2005). National field manual for the collection of water-quality data: U.S. Geological Survey Techniques of Water-Resources Investigations, book 9, chaps. A6.7, available online at <http://pubs.water.usgs.gov/twri9A>.

USGS (2012). Turbidity parameter and methods codes, available online at:  
[https://water.usgs.gov/owq/turbidity/Turbidity\\_parameter\\_codes\\_and\\_methods\\_codes\\_\(May2012\)%20\(2\).xlsx](https://water.usgs.gov/owq/turbidity/Turbidity_parameter_codes_and_methods_codes_(May2012)%20(2).xlsx)

## **1.5 General Precautions**

### ***1.5.1 Safety***

Proper safety precautions must be observed when conducting field turbidity measurements. Refer to the SESD Safety, Health and Environmental Management Program (SHEMP) Manual (Most Recent Version) and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. When using this procedure, minimize exposure to potential health hazards through the use of protective clothing, eye wear and gloves. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

### ***1.5.2 Procedural Precautions***

All field turbidity measurements pertinent to the sampling event should be recorded in the field logbook for the event. All records should be entered according to the procedures outlined in the SESD Operating Procedure for Logbooks (SESDPROC-010).

## 2 Quality Control

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All turbidity meters and probes shall be maintained and operated in accordance with the manufacturer's instructions and the SESD Operating Procedure for Equipment Inventory and Management (SESDPROC-108). Before a meter or probe is taken to the field, it shall be properly calibrated or verified, according to Sections 3.2 and 3.3 of this procedure, to ensure it is operating properly. These calibration and verification checks shall be documented and maintained in a logbook.

The ambient temperature in the immediate vicinity of the meter should be measured and recorded in the field logbook to insure the instrument is operated within the manufacturer's specified range of operating temperatures. For instruments that are deployed for in-situ measurements, the temperature of the medium being monitored should be measured and recorded in the logbook prior to deployment. *In-situ monitoring equipment may be utilized in unattended deployments where autonomous logging may preclude temperature measurement prior to deployment. Because in situ instrumentation generally has a wide range of operating temperature, the field investigator may utilize professional judgment in determining if the operating environment is suitable for unattended deployment.*

If at any time during a field investigation, it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

## 3 Field Turbidity Measurement Procedures

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### 3.1 General

Turbidity is caused by suspended and colloidal matter such as clay, silt, organic and inorganic matter and microscopic organisms. Many methods are available for the measurement of turbidity including turbidimeters and optical probes. Turbidity is measured by determining the amount of scatter when a light is passed through a sample.

### 3.2 Instrument Calibration and Verification

Many brands of instruments are commercially available for the measurement of turbidity incorporating a wide variety of technologies (See Section 3.5 for further discussion). The manufacturer's instruction manual should be consulted for specific procedures regarding their calibration, maintenance and use. Calibration of any measurement instrument must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate. Depending on the instrument, the verification and calibration can differ slightly. If the instrument readings do not agree within  $\pm 10\%$  of the calibration standards, the unit must be recalibrated, repaired or replaced. The following are basic guidelines for calibration/verification of meters and are provided as an example:

#### 3.2.1 Meter Calibration and Verification

##### HACH 2100Q Turbidimeter:

Portable turbidimeters are calibrated with Formazin Primary Standards. The manufacturer recommends calibration with a primary standard such as StablCal® Stabilized Standards or with formazin standards every three months.

Generally only a calibration verification measurement is required in the field; however, if a calibration is needed, record a post calibration reading for each calibration standard used.

##### Meter Verification:

1. Push **Verify Cal** to enter the Verify menu.
2. Gently invert the liquid standard several times prior to insertion into meter. Insert the 10.0 NTU (or other defined value) Verification Standard and close the Lid.
3. Push **Read**. The display shows "Stabilizing" and then shows the result and tolerance range.

4. Push **Done** to return to the reading display. Repeat the calibration verification if the verification failed. If a meter is unable to pass verification, then that meter will need to be calibrated.

Meter Calibration:

1. Push the **CALIBRATION** key to enter the Calibration mode. Follow the instructions on the display. **Note:** Gently invert each standard several times before inserting the standard and use a non-abrasive, lint-free paper or cloth to wipe off the standards.
2. Insert the 20 NTU StablCal Standard and close the lid. Push **Read**. The display shows “Stabilizing” and then shows the result. Record the result.
3. Repeat Step 2 with the 100 NTU and 800 NTU StablCal Standard. Record both results.
4. Push **Done** to review the calibration details.
5. Push **Store** to save the results. After a calibration is complete, the meter automatically goes into the Verify Cal mode.

### ***3.2.2 Probe Calibration and Verification***

The manufacturer’s instruction manual should be consulted for specific procedures regarding probe’s calibration, maintenance and use. Their calibration must be conducted and/or verified prior to each use or on a daily basis, whichever is most appropriate. The following are basic guidelines for calibration/verification of probes and are provided as an example:

1. Turn the meter “ON” and allow it to stabilize
2. Immerse the probe in the first standard solution and calibrate the probe against the solution.
3. Rinse the probe with de-ionized water, remove excess rinse water and calibrate the probe using additional standards as appropriate.
4. Record the standard values used to calibrate the meter.

### 3.3 Sample Measurement Procedures

Depending on the meter, the sample measurement procedure can differ slightly.

#### 3.3.1 *Grab Sample Measurement*

These procedures should be followed when conducting turbidity measurements of grab samples:

1. Collect a representative sample and pour off enough to fill the cell to the fill line (about 15 mL) and replace the cap on the cell.
2. Gently wipe off excess water and any streaks from surface of sampling vial.
3. Turn instrument on. Place the meter on a flat, sturdy surface. Do not hold the instrument while making measurements.
4. Insert the sample cell in the instrument so the diamond or orientation mark aligns with the raised orientation mark in the front of the cell compartment. Close the lid.
5. If appropriate, select manual or automatic range selection by pressing the range key.
6. If appropriate, select signal averaging mode by pressing the Signal Average key. Use signal average mode if the sample causes a noisy signal (display changes constantly).
7. Press Read. The display will show ---- NTU. Then the turbidity is displayed in NTU. Record the result to the correct range dependent significant digits as required by EPA Method 180.1 Rev. 2.0 (USEPA, 1993) and SM 2130B (APHA, 1992) (Table 1).
8. Rinse the cell with de-ionized water or rinse out with sample water prior to the next reading.

Table 1: Reporting Requirements (APHA, 1992)

Turbidity Range <i>NTU</i>	Report to the Nearest <i>NTU</i>
0–1.0	0.05
1–10	0.1
10–40	1
40–100	5
100–400	10
400–1000	50
>1000	100

### 3.3.2 *In-Situ Measurement*

These procedures should be followed when conducting in-situ turbidity measurements:

1. Place the probe into the media to be measured and allow the turbidity reading to stabilize. Once the reading has stabilized, record the measurement in the logbook.
2. When deploying meters for extended periods of time, ensure the measurement location is representative of average media conditions.

### 3.4 **Operational check**

Even though it is not necessary to re-calibrate turbidity meters at regular intervals during the day, depending on the instrument, it may be appropriate to occasionally perform operational checks to determine if site conditions, such as an increase in temperature, have impacted the meter's performance. If an operational check is warranted, the following procedure should be followed to ensure that the performance of the meter has not changed.

While in use, periodically check the turbidity by rinsing the probe with de-ionized water, blot dry or otherwise remove excess rinse water and immerse it into the appropriate calibration standard. If the measured turbidity differs by  $\pm 10\%$  (depending on the application) from the calibration standard, the meter must be re-calibrated.

A post-operation instrument verification check will be performed using the appropriate standard(s) at the end of the day or after all measurements have been taken for a particular period of operation. These measurements must be recorded in the field logbook.

### 3.5 Units and Application

Due to the availability of various technologies for measuring turbidity, the USGS (United States Geological Survey) in collaboration with ASTM International (American Society for Testing and Materials) has determined that data collected using different methods are not directly comparable and should be reported in units reflecting the specific technology used (USGS 2004; ASTM International 2012) (Table 2).

Measurements taken for regulatory purposes (i.e. National Primary Drinking Water Regulations (NPDWR) monitoring, National Pollution Discharge Elimination System (NPDES) reporting) must be in compliance with EPA approved methods. Approved methods for Clean Water Act programs and Safe Drinking Water Act programs can be found in 40 C.F.R. § 136.3 and 40 C.F.R. § 141.74(a)(1), respectively.

Project leaders should consult the decision tree depicted in Figure 1 to determine the appropriate turbidity method that will meet the project specific Data Quality Objectives. For more detailed information on the different methods and their associated units, refer to the USGS National Field Manual for the Collection of Water-Quality Data, Section 6.7 (USGS 2005) and ASTM designation D7315 (ASTM International 2012). A sensor specific spreadsheet detailing methods and associated units can be found on the USGS Field Manual website under turbidity parameter and methods codes (USGS 2012).



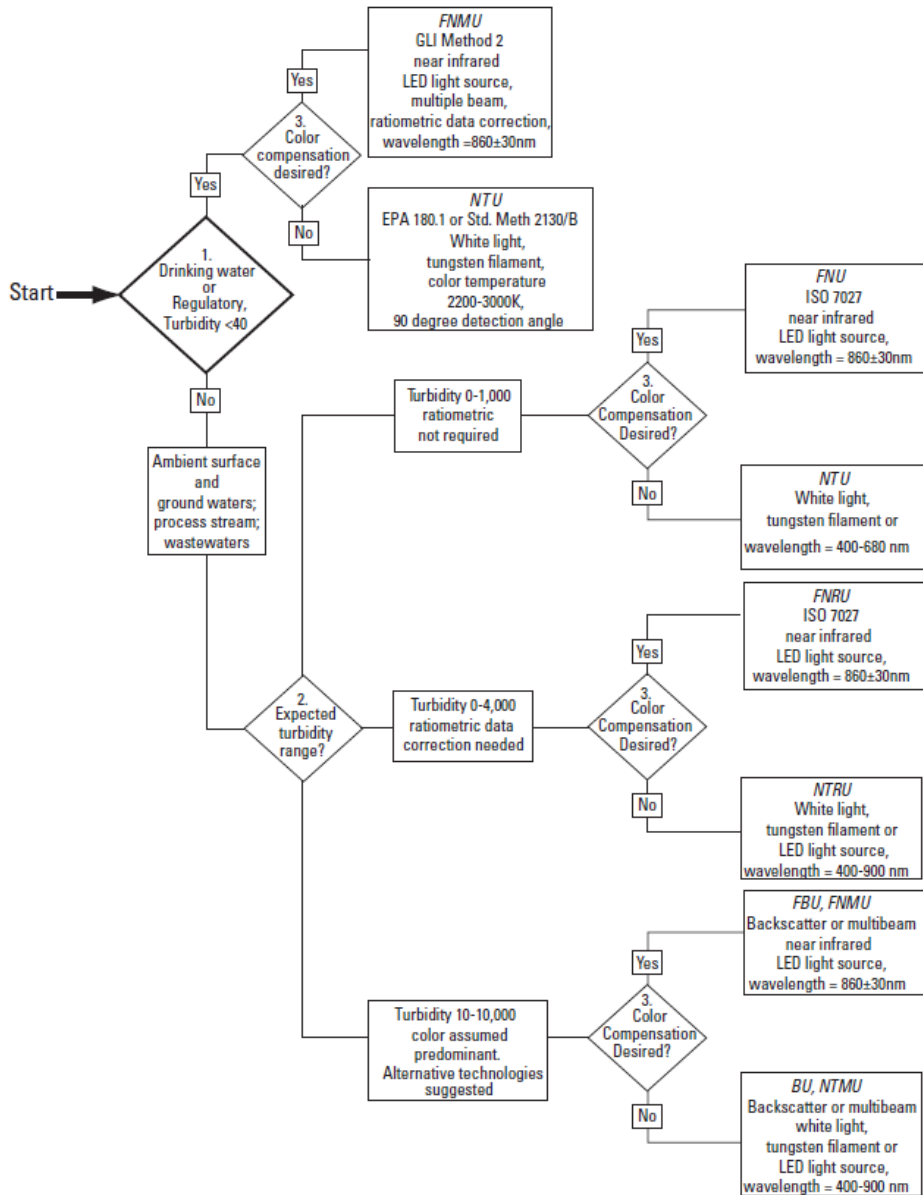


Figure 1: Turbidity Method Decision Tree, adapted from Figure 6.7-2 (USGS 2005)

Table 2: Turbidity Technology, Units, Application, & Design (adapted from ASTM International 2012)

Design and Reporting Unit	Prominent Application	Key Design Features
Nephelometric non-ratio (NTU)	White light turbidimeters. Comply with USEPA Method 180.1 for low level turbidity monitoring.	Detector centered at 90° relative to the incident light beam. Uses a white light spectral source.
Ratio White Light turbidimeters (NTRU)	Complies with ISWTR regulations and Standard Method 2130B. Can be used for both low and high level measurement.	Used a white light spectral source. Primary detector centered at 90°. Other detectors located at other angles. An instrument algorithm uses a combination of detector readings to generate the turbidity reading.
Nephelometric, near-IR turbidimeters, non-ratiometric (FNU)	Complies with ISO 7027. The wavelength is less susceptible to color interferences. Applicable for samples with color and good for low level monitoring.	Detector centered at 90° relative to the incident light beam. Uses a near-IR (780–900 nm) monochromatic light source.
Nephelometric near-IR turbidimeters, ratio metric (FNRU)	Complies with ISO 7027. Applicable for samples with high levels of color and for monitoring to high turbidity levels.	Uses a near-IR monochromatic light source (780–900 nm). Primary detector centered at 90°. Other detectors located at other angles. An instrument algorithm uses a combination of detector readings to generate the turbidity reading.
Surface Scatter Turbidimeters (NTU)	Turbidity is determined through light scatter from or near the surface of a sample.	Detector centered at 90° relative to the incident light beam. Uses a white light spectral source.
Formazin Back Scatter (FBU)	Not applicable for regulatory purposes. Best applied to high turbidity samples. Backscatter is common with but not all only probe technology and is best applied in higher turbidity samples.	Uses a near-IR monochromatic light source in the 780–900 nm range. Detector geometry is between 90° and 180° relative to the incident light beam.
Backscatter Unit (BU)	Not applicable for regulatory purposes. Best applied for samples with high level turbidity.	Uses a white light spectral source (400–680 nm range). Detector geometry is between 90° and 180° relative to the incident light beam.
Formazin attenuation unit (FAU)	May be applicable for some regulatory purposes. This is commonly applied with spectrophotometers. Best applied for samples with high level turbidity.	Detector is geometrically centered at 0° relative to incident beam (attenuation). Wavelength is 780–900 nm.
Light attenuation unit (AU)	Not applicable for some regulatory purposes. This is commonly applied with spectrophotometers.	Detector is geometrically centered at 0° relative to incident beam (attenuation). Wavelength is 400–680 nm.
Nephelometric Turbidity Multi-beam Unit (NTMU)	Is applicable to EPA regulatory method GLI Method 2. Applicable to drinking water and wastewater monitoring applications.	Detectors are geometrically centered at 0° and 90°. An instrument algorithm uses a combination of detector readings, which may differ for turbidities varying magnitude.

<b>Region 4</b> <b>U.S. Environmental Protection Agency</b> <b>Science and Ecosystem Support Division</b> <b>Athens, Georgia</b>	
<b>Operating Procedure</b>	
<b>Title: Field Temperature Measurement</b>	<b>ID: SESDPROC-102-R5</b>
Issuing Authority: Chief, Field Services Branch	
Effective Date: March 14, 2018	

### **Purpose**

This document describes general and specific procedures, methods and considerations to be used and observed when measuring the temperature of aqueous phase environmental media, including groundwater, surface water and certain wastewaters.

### **Scope/Application**

The procedures contained in this document are to be used by field personnel when measuring the temperature of aqueous phase environmental media in the field. On the occasion that SESD field personnel determine that any of the procedures described in this section cannot be used to obtain temperature measurements of the media being sampled, and that another method or measurement instrument must be used to obtain said measurements, the variant instrument and measurement procedure will be documented in the field log book and subsequent investigation report, along with a description of the circumstances requiring its use.

While this SOP may be informative, it is not intended for and may not be directly applicable to operations in other organizations. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

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## **1.0 Field Temperature Measurement Procedures**

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### **1.1 General**

Field temperature measurements may be made with a field thermometer, equipment thermistor, or NIST-traceable thermometer. At a minimum, the temperature measurement device should be capable of measuring in 0.1°C increments.

### **1.2 Instrument Verification**

#### **1.2.1 Field thermometers and thermistors**

Temperature measurement devices such as field thermometers and equipment thermistors will be verified against a NIST-traceable thermometer prior to use and should agree within  $\pm 4.0^\circ\text{C}$ . Corrections may be applied for measurements up to  $\pm 4.0^\circ\text{C}$  depending on investigation objectives, but the instrument must be repaired or replaced beyond that range.

Due to the stable nature of thermistors on multi-parameter water quality instruments, thermistors will be checked at the beginning and end of a field study, but do not have to be checked for every calibration during the study. In order to track stability and reliability, the thermistors on these units will be checked against a NIST-traceable thermometer on an annual basis, with the electronic record of these checks maintained on the Ecology Section Sharepoint Site.

In order to provide the most stable readings, thermistor checks against the NIST-traceable thermometer should be conducted in a liquid calibration standard at stabilized room temperature as opposed to air during the saturated air calibration of dissolved oxygen.

Enforcement cases would still require temperature verification for every calibration and end check related to the case.

#### **1.2.2 NIST-traceable thermometer**

Verification of the NIST-traceable thermometers that are used to verify temperature measuring devices is accomplished by comparing temperature readings from the NIST-traceable thermometer to a thermometer that has an independent certification of accuracy traceable to the National Institute of Standards and Testing. Current certified thermometers are maintained by the SESD Analytical Support Branch and are called reference thermometers.

Each NIST-traceable thermometer is verified by comparing at least annually against a reference thermometer. If corrections need to be applied, they will be noted in the NIST-traceable thermometer. Depending on investigation objectives, project leaders may decide to apply the correction factor as necessary.

### 1.3 Inspections

All temperature measurement devices should be inspected for leaks, cracks, and/or function prior to each use.

### 1.4 Sample measurement procedures for thermometers/thermistors

(Make measurements in-situ when possible)

1. Clean the probe end with de-ionized water and immerse into sample.
2. If not measuring in-situ, swirl the instrument in the sample for mixing and equilibration.
3. Allow the instrument to equilibrate with the sample for at least one minute.
4. Suspend the instrument away from the sides and bottom, if not in-situ, to observe the temperature reading.
5. Record the reading in the log book. For most applications, report temperature readings to the nearest 0.5°C or to the nearest 0.1°C depending on need.

**Note:** Always clean the thermometer with de-ionized water or a detergent solution, if appropriate, prior to storage and/or use.

### 1.5 Units

Degrees Celsius (°C) or Degrees Fahrenheit (°F)

**Conversion Formulas:**

$$^{\circ}\text{F} = (9/5 \text{ } ^{\circ}\text{C}) + 32 \quad \text{or} \quad ^{\circ}\text{C} = 5/9 (\text{ } ^{\circ}\text{F} - 32)$$

### 1.6 Quality Control

All thermometers should be maintained and operated in accordance with the manufacturer's instructions and the SESD Operating Procedure for Equipment Inventory and Management (SESDPROC-108). Temperature measurement devices such as pH, conductivity and dissolved oxygen (DO) meter thermistors will be verified against a National Institute of Standards and Technology (NIST)-traceable thermometer before each use as described in Section 3.2.

If at any time during a field investigation, it appears that the environmental conditions could jeopardize the quality of the measurement results, the measurements will be stopped. This will be documented in the field logbook.

## 2 Definitions

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None

## 3 References

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SESD Operating Procedure for Equipment Inventory and Management, SESDPROC-108, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

United States Environmental Protection Agency (US EPA). Most Recent Version. Environmental Investigations Standard Operating Procedures and Quality Assurance Manual. Region 4 Science and Ecosystem Support Division (SESD), Athens, GA

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

## 4 Revision History

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This table shows changes to this controlled document over time. The most recent version is presented in the top row of the table. Previous versions of the document are maintained by the SESD Document Control Coordinator.

History	Effective Date
SESDPROC-102-R5, <i>Field Temperature Measurement</i> , replaces SESDPROC-102-R4 <b>General:</b> Corrected any typographical, grammatical, and/or editorial errors. Additionally, the document was edited to reflect new Document Control Processes.  <b>Section 1.2.1:</b> Verification requirements of thermistors on multi-parameter water quality instruments were modified.	March 14, 2018
SESDPROC-102-R4, <i>Field Temperature Measurement</i> , replaces SESDPROC-102-R3	October 23, 2014
SESDPROC-102-R3, <i>Field Temperature Measurement</i> , replaces SESDPROC-102-R2	February 4, 2011
SESDPROC-102-R2, <i>Field Temperature Measurement</i> , Replaces SESDPROC-102-R1	June 13, 2008
SESDPROC-102-R1, <i>Field Temperature Measurement</i> , Replaces SESDPROC-102-R0	November 1, 2007
SESDPROC-102-R0, <i>Field Temperature Measurement</i> , Original Issue	February 05, 2007

<b>Region 4 U.S. Environmental Protection Agency Laboratory Services and Applied Science Division Athens, Georgia</b>	
<b>Operating Procedure</b>	
Title: Groundwater Level and Well Depth Measurement	ID: LSASDPROC-105-R4
Issuing Authority: LSASD Field Branch Chief	
Effective Date: May 15, 2020	Review Date: May 15, 2024

**Purpose**

This document describes general and specific procedures, methods and considerations to be used and observed when determining water levels and depths of wells.

**Scope/Application**

The procedures contained in this document are to be used by field investigators to measure water levels and depths of wells. On the occasion that LSASD field investigators determine that any of the procedures described in this section are either inappropriate, inadequate or impractical and that another procedure must be used for water level or depth determination, the variant procedure(s) will be documented in the field log book and the subsequent investigation report, along with a description of the circumstances requiring its use



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## **1 General Information**

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### **1.1 Documentation/Verification**

This procedure was prepared by persons deemed technically competent by LSASD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the LSASD Local Area Network. The Document Control Coordinator is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

### **1.2 General Precautions**

#### **1.2.1 Safety**

Proper safety precautions must be observed when measuring water levels in wells and determining their depths. Refer to the LSASD Safety, Health and Environmental Management Program Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate.

#### **1.2.2 Procedural Precautions**

The following precautions should be considered when measuring water levels and depths of wells:

- Special care must be taken to minimize the risk of cross-contamination between wells when conducting water level and depth measurements. This is accomplished primarily by decontaminating the sounders or other measuring devices between wells, according to LSASD Operating Procedure for Field Equipment Cleaning and Decontamination, (LSASDPROC-205) and maintaining the sounders in clean environment while in transit between wells.
- Water levels and well depths measured according to these procedures should be recorded in a bound logbook dedicated to the project as per LSASD Operating Procedure for Logbooks (LSASDPROC-010). Serial numbers, property numbers or other unique identification for the water level indicator or sounder must also be recorded.

## **2 Quality Control Issues**

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There are several specific quality control issues pertinent to conducting water level and depth measurements at wells. These are:

- Devices used to measure groundwater levels should be verified annually against a National Institute of Standards and Technology (NIST) traceable measuring tape. These devices should check to within 0.01 feet per 10 feet of length with an allowable error of 0.03 feet in the first 30 feet. Before each use, these devices should be prepared according to the manufacturer's instructions (if appropriate) and checked for obvious damage. All verification and maintenance data should be documented electronically or recorded in a logbook maintained at the Field Equipment Center (FEC) as per the LSASD Operating Procedure for Equipment Inventory and Management (LSASDPROC-108). The functional check and tape length verification should be performed according to the instructions included in LSASDFORM-043, *Well Sounder Function Check and Verification*, which also includes the form for recording the required information.
- These devices should be decontaminated according to the procedures specified in LSASD Operating Procedure for Field Equipment Cleaning and Decontamination (LSASDPROC-205) prior to use at the next well.

### **3 Water Level and Depth Measurement Procedures**

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#### **3.1 General**

The measurement of the groundwater level in a well is frequently conducted in conjunction with ground water sampling to determine the phreatic water surface. This potentiometric surface measurement can be used to establish ground water direction and gradients. Groundwater level and well depth measurements are needed to determine the volume of water or drawdown in the well casing for proper purging.

All groundwater level and well depth measurements should be made relative to an established reference point on the well casing and should be documented in the field records. This reference point is usually identified by the well installer using a permanent marker for PVC wells, or by notching the top of casing with a chisel for stainless steel wells. By convention, this marking is usually placed on the north side of the top of casing. If no mark is apparent, the person performing the measurements should take both water level and depth measurements from the north side of the top of casing and note this procedure in the field log book.

To be useful for establishing groundwater gradient, the reference point should be tied in with the NAVD88 (North American Vertical Datum of 1988) or a local datum. For an isolated group of wells, it is acceptable to use an arbitrary datum common to all wells in that group.

Water levels should be allowed to equilibrate prior to measurement after removing sealing caps. There are no set guidelines and appropriate equilibration times can range from minutes to hours depending on well recharge, local geology and topography, and project objectives.

### 3.2 Specific Groundwater Level Measurement Techniques

Measuring the depth to the phreatic ground water surface can be accomplished by the following methods. Method accuracies are noted for each of the specific methods described below.

- **Electronic Water Level Indicators** – These types of instruments consist of a spool of dual conductor wire, a probe attached to the end and an indicator. When the probe comes in contact with the water, the circuit is closed and a meter light and/or audible buzzer attached to the spool will signal contact. Penlight or 9-volt batteries are normally used as a power source. Measurements should be made and recorded to the nearest 0.01 foot.
- **Other Methods** – There are other types of water level indicators and recorders available on the market, such as weighted steel tape, chalked tape, sliding float method, air line pressure method and automatic recording methods. These methods are primarily used for closed systems or permanent monitoring wells. Acoustic water level indicators are also available which measure water levels based on the measured return of an emitted acoustical impulse. Accuracies for these methods vary and should be evaluated before selection. Any method not capable of providing measurements to within 0.1 foot should not be used.

### 3.3 Special Considerations for Water Level Measurements at Sites with Shallow Groundwater Gradient

Groundwater gradients at some sites can be very shallow and if gradient and groundwater flow pattern (gradient direction) determination are part of the project objectives, it is critical that groundwater level measurements obtained from wells are as accurate as possible. Special care should be taken to allow the water level to equilibrate after removing sealing caps and the same sounder should be used for all measurements, if possible. The sounding activity should be coordinated to allow all wells to be sounded within the minimum possible time. This is particularly important in areas with potential tidal influences.

### 3.4 Total Well Depth Measurement Techniques

The well sounder, weighted tape or electronic water level indicators can be used to determine the total well depth. This is accomplished by lowering the tape or cable until the weighted end is felt resting on the bottom of the well. Because of tape buoyancy and weight effects encountered in deep wells with long water columns, it may be difficult to determine when the tape end is touching the bottom of the well and sediment in the bottom of the well can also make it difficult to determine total depth. Care must be taken in these situations to ensure accurate measurements. The operator may find it easier to allow the weight to touch bottom and then detect the ‘tug’ on the tape while lifting the weight off the well bottom. All total depth measurements must be made and recorded to the nearest 0.1 foot. As a cautionary note, when measuring well depths with the electronic water level indicators, the person performing the measurement must measure and add the length of the probe beneath the circuit closing electrodes to the depth measured to obtain the true depth. This is necessary because the tape distance markings are referenced to the electrodes, rather than the end of the probe. For electronic sounders maintained at the LSASD FEC, the sounder reel will be marked with the appropriate additional length identified as the ‘TD adder’.

### 3.5 Equipment Available

The following equipment is available for ground water level and total depth measurements:

- Weighted steel measuring tapes
- Electronic water level indicators

## 4 Establishment of Top of Casing Elevations

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To establish groundwater surface elevations, the measured distance from the top of casing to the water surface is subtracted from the well top of casing (TOC) elevation. Obtaining accurate TOC elevations is crucial to developing an accurate groundwater surface elevation map and determination of groundwater flow direction.

The only acceptable means of surveying well TOC elevations is differential leveling conducted to third order standards. Third order differential leveling has allowable error defined by the following formula:

$$\text{Allowable Error (ft)} = 0.05 \times \sqrt{\text{Survey loop length (miles)}}$$

This work must be conducted with an auto level as the leveling instrument. Surveying TOC elevations with a total station or survey-grade GPS will not provide the requisite accuracy.

When adding wells to a monitoring network, it is permissible to tie the new well elevations to the known TOC elevations of existing wells in the network. The elevations of several wells in the existing network should be checked to assure that the relative differences in elevation match the recorded elevation data.

Generally, the ground surface elevations at each well should be surveyed at the same time.

## 5 References

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LSASD Operating Procedure for Equipment Inventory and Management, LSASDPROC-108, Most Recent Version

LSASD Operating Procedure for Field Equipment Cleaning and Decontamination, LSASDPROC-205, Most Recent Version

LSASD Operating Procedure for Logbooks, LSASDPROC-010, Most Recent Version

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region LSASD, Athens, GA, Most Recent Version

**6 Revision History**

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The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the LSASD Document Control Coordinator on the LSASD local area network (LAN).

History	Effective Date
<p>LSASDPROC-105-R4, <i>Groundwater Level and Well Depth Measurement</i>, replaces SESDPROC-105-R3</p> <p><b>General:</b> Corrected any typographical, grammatical, and/or editorial errors. Updated document template and naming convention. Changed references to SESD to LSASD and FSB to ASB due to organizational name changes from Agency re-alignment. Reformatted and updated naming convention.</p>	May 15, 2020
<p>SESDPROC-105-R3, <i>Groundwater Level and Well Depth Measurement</i>, replaces SESDPROC-105-R2</p> <p><b>General:</b> Corrected any typographical, grammatical, and/or editorial errors.</p> <p><b>Title Page:</b> Author changed from Tim Simpson to Brian Striggow. Changed the Field Quality Manager from Bobby Lewis to Hunter Johnson. Updated cover page to represent LSASD reorganization. John Deatruck was not listed as the Chief of the Applied Services Branch</p> <p><b>Section 4:</b> Added section on the Establishment of Well Top of Casing Elevations.</p>	November 3, 2016
<p>SESDPROC-105-R2, <i>Groundwater Level and Well Depth Measurement</i>, replaces SESDPROC-105-R1</p>	January 29, 2013
<p>SESDPROC-105-R1, <i>Groundwater Level and Well Depth Measurement</i>, replaces SESDPROC-105-R0</p>	November 1, 2007
<p>SESDPROC-105-R0, <i>Groundwater Level and Well Depth Measurement</i>, Original Issue</p>	February 05, 2007

**Region 4**  
**U.S. Environmental Protection Agency**  
**Science and Ecosystem Support Division**  
**Athens, Georgia**

**OPERATING PROCEDURE**

**Title: Groundwater Sampling**

**Effective Date:** April 26, 2017

**Number:** SESDPROC-301-R4

**Authors**

**Name:** Brian Striggow  
**Title:** Environmental Engineer

**Signature:** 

**Date:** 4-20-17


**Approvals**

**Name:** John Deatruck  
**Title:** Chief, Field Services Branch

**Signature:** 

**Date:** 4/24/17

**Name:** Hunter Johnson  
**Title:** Field Quality Manager, Science and Ecosystem Support Division

**Signature:** 

**Date:** 4/20/17

## Revision History

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The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the SESD Document Control Coordinator on the SESD local area network (LAN).

History	Effective Date
<b>SESDPROC-301-R4, Groundwater Sampling, replaces SESDPROC-301-R3.</b>  <b>General:</b> Corrected any typographical, grammatical, and/or editorial errors.  <b>General:</b> An extensive rewrite and reorganization of material. Stronger support of low-flow methods while maintaining cautious view of minimal/no purge methods.	April 26, 2017
<b>SESDPROC-301-R3, Groundwater Sampling, replaces SESDPROC-301-R2.</b>	March 6, 2013
<b>SESDPROC-301-R2, Groundwater Sampling, replaces SESDPROC-301-R1.</b>	October 28, 2011
<b>SESDPROC-301-R1, Groundwater Sampling, replaces SESDPROC-301-R0.</b>	November 1, 2007
<b>SESDPROC-301-R0, Groundwater Sampling, Original Issue</b>	February 05, 2007



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# 1 General Information

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## 1.1 Purpose

This document describes general and specific procedures, methods and considerations to be used and observed when collecting groundwater samples for field screening or laboratory analysis.

## 1.2 Scope/Application

The procedures contained in this document are to be used by field personnel when collecting and handling groundwater samples in the field. On the occasion that SESD field personnel determine that any of the procedures described are either inappropriate, inadequate or impractical and that another procedure must be used to obtain a groundwater sample, the variant procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

## 1.3 Documentation/Verification

This procedure was prepared by persons deemed technically competent by SESD management, based on their knowledge, skills and abilities and has been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the SESD Local Area Network (LAN). The Document Control Coordinator (DCC) is responsible for ensuring the most recent version of the procedure is placed on the LAN and for maintaining records of review conducted prior to its issuance.

## 1.4 References

International Air Transport Authority (IATA). Dangerous Goods Regulations, Most Recent Version

Interstate Technology & Regulatory Council, Technology Overview of Passive Sampler Technologies, Prepared by The Interstate Technology & Regulatory Council Diffusion Sampler Team, March 2006.

Nielsen, David. *Practical Handbook of Environmental Site Characterization and Ground-Water Monitoring*. 2nd ed. Boca Raton, FL: Taylor&Francis, 2006. Print.

Puls, Robert W., and Michael J. Barcelona. 1989. Filtration of Ground Water Samples for Metals Analysis. *Hazardous Waste and Hazardous Materials* 6(4), pp.385-393.

Puls, Robert W., Don A. Clark, and Bert Bledsoe. 1992. Metals in Ground Water: Sampling Artifacts and Reproducibility. Hazardous Waste and Hazardous Materials 9(2), pp. 149-162.

SESD Guidance Document, Design and Installation of Monitoring Wells, SESDGUID-001, Most Recent Version

SESD Operating Procedure for Control of Records, SESDPROC-002, Most Recent Version

SESD Operating Procedure for Sample and Evidence Management, SESDPROC-005, Most Recent Version

SESD Operating Procedure for Logbooks, SESDPROC-010, Most Recent Version

SESD Operating Procedure for Field Sampling Quality Control, SESDPROC-011, Most Recent Version

SESD Operating Procedure for Field pH Measurement, SESDPROC-100, Most Recent Version

SESD Operating Procedure for Field Specific Conductance Measurement, SESDPROC-101, Most Recent Version

SESD Operating Procedure for Field Temperature Measurement, SESDPROC-102, Most Recent Version

SESD Operating Procedure for Field Turbidity Measurement, SESDPROC-103, Most Recent Version

SESD Operating Procedure for Groundwater Level and Well Depth Measurement, SESDPROC-105, Most Recent Version

SESD Operating Procedure for Management of Investigation Derived Waste, SESDPROC-202, Most Recent Version

SESD Operating Procedure for Pump Operation, SESDPROC-203, Most Recent Version

SESD Operating Procedure for Field Equipment Cleaning and Decontamination, SESDPROC-205, Most Recent Version

SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC, SESDPROC-206, Most Recent Version

SESD Operating Procedure for Potable Water Supply Sampling, SESDPROC-305, Most Recent Version

United States Environmental Protection Agency (US EPA). 1975. Handbook for Evaluating Water Bacteriological Laboratories. Office of Research and Development (ORD), Municipal Environmental Research Laboratory, Cincinnati, Ohio.

US EPA. 1977. Sampling for Organic Chemicals and Microorganisms in the Subsurface. EPA-600/2-77/176.

US EPA. 1978. Microbiological Methods for Monitoring the Environment, Water and Wastes. ORD, Municipal Environmental Research Laboratory, Cincinnati, Ohio.

US EPA. 1981. "Final Regulation Package for Compliance with DOT Regulations in the Shipment of Environmental Laboratory Samples," Memo from David Weitzman, Work Group Chairman, Office of Occupational Health and Safety (PM-273), April 13, 1981.

US EPA. 1995. Ground Water Sampling - A Workshop Summary. Proceedings from the Dallas, Texas November 30 – December 2, 1993 Workshop. ORD, Robert S. Kerr Environmental Research Laboratory. EPA/600/R-94/205, January 1995.

US EPA 1996. Ground Water Issue. Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures. ORD, Robert W. Puls and Micael Barcelona. EPA/540/S-95/504, April 1996

US EPA. Analytical Services Branch Laboratory Operations and Quality Assurance Manual. Region 4 SESD, Athens, GA, Most Recent Version

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 SESD, Athens, GA, Most Recent Version

Varljen, M., Barcelona, M., Obereiner, J., & Kaminski, D. (2006). Numerical simulations to assess the monitoring zone achieved during low-flow purging and sampling. *Ground Water Monitoring and Remediation*, 26(1), 44-52.

## **1.5 General Precautions**

### ***1.5.1 Safety***

Proper safety precautions must be observed when collecting groundwater samples. Refer to the SESD Safety, Health and Environmental Management Program (SHEMP) Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. The reader should address chemicals that pose specific toxicity or safety concerns

and follow any other relevant requirements, as appropriate.

### ***1.5.2 Procedural Precautions***

The following precautions should be considered when collecting groundwater samples.

- Special care must be taken not to contaminate samples. This includes storing samples in a secure location to preclude conditions which could alter the properties of the sample. Samples shall be custody sealed during long-term storage or shipment.
- Always sample from the anticipated cleanest, i.e., least contaminated location, to the most contaminated location. This minimizes the opportunity for cross-contamination to occur during sampling.
- Collected samples must remain in the custody of the sampler or sample custodian until the samples are relinquished to another party.
- If samples are transported by the sampler, they will remain under his/her custody or be secured until they are relinquished.
- Chain-of-custody documents shall be filled out and remain with the samples until custody is relinquished.
- Shipped samples shall conform to all U.S. Department of Transportation (DOT) rules of shipment found in Title 49 of the Code of Federal Regulations (49 CFR parts 171 to 179), and/or International Air Transportation Association (IATA) hazardous materials shipping requirements found in the current edition of IATA's Dangerous Goods Regulations.
- Documentation of field sampling is done legibly, completely, and neatly in a bound logbook.

## **2 Special Sampling Considerations**

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### **2.1 Volatile Organic Compounds (VOC) Analysis**

Groundwater samples for VOC analysis must be collected in 40 ml glass vials with Teflon® septa. The vial may be either pre-preserved with concentrated hydrochloric acid or they may be unpreserved. Preserved samples have a two-week holding time, whereas unpreserved samples have only a seven-day holding time. In the majority of cases, the preserved vials are used to take advantage of the extended holding time. In some situations, however, it may be necessary to use the unpreserved vials. For example, if the groundwater has a high amount of dissolved limestone, i.e., is highly calcareous, there will likely be an effervescent reaction between the hydrochloric acid and the water, producing large numbers of fine bubbles and rendering the sample unacceptable. In this case, unpreserved vials should be used and arrangements confirmed with the laboratory to ensure that they can accept the unpreserved vials and meet the shorter sample holding times.

The samples should be collected with as little agitation or disturbance as possible. The vial should be filled so that there is a meniscus at the top of the vial and no bubbles or headspace should be present in the vial after it is capped. After the cap is securely tightened, the vial should be inverted and tapped on the palm or knuckle to check if any undetected bubbles are dislodged. If a bubble or bubbles are present, the vial should be topped off using a minimal amount of sample to re-establish the meniscus. Care should be taken not to flush any preservative out of the vial during topping off. If, after topping off and capping the vial, bubbles are still present, a new vial should be obtained and the sample re-collected. While the 8260 method allows for bubbles up to 6 mm at the time of analysis, dissolved or entrained gases can coalesce during shipment. Collecting VOC vials absent of bubbles is generally feasible and is a reasonable precaution.

### **2.2 Special Precautions for Trace Contaminant Groundwater Sampling**

- Sampling equipment must be constructed of Teflon® or stainless steel materials. Bailers and pumps should be of Teflon® and stainless steel construction throughout.
- New Teflon® tubing should be used at each well, although tubing dedicated to a particular well may be reused, either after decontamination or storage in the well between sampling events. Caution is appropriate in reusing tubing where early sampling events report high concentrations of contaminants.
- A clean pair of new, non-powdered, disposable gloves will be worn each time a different location is sampled and the gloves should be donned immediately prior to sampling. The gloves should not come in contact with the media being sampled and should be changed any time during sample collection when their cleanliness is compromised.
- Sample containers for samples suspected of containing high concentrations of contaminants shall be stored separately.

- Sample collection activities shall proceed progressively from the least suspected contaminated area to the most suspected contaminated area if purging and sampling devices are to be reused. Samples of waste or highly contaminated media must not be placed in the same cooler as environmental (i.e., containing low contaminant levels) or background samples.
- If possible, one member of the field sampling team should take all the notes and photographs, fill out tags, etc., while the other members collect the samples.
- Clean plastic sheeting will be placed on the ground at each sample location to prevent or minimize contaminating sampling equipment by accidental contact with the ground surface.
- Samplers must use new, verified certified-clean disposable or non-disposable equipment cleaned according to procedures contained in SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205) or SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-206) for collection of samples for trace metals or organic compound analyses.

### **2.3 Sample Handling and Preservation Requirements**

1. Groundwater samples will typically be collected from the discharge line of a pump or from a bailer. Efforts should be made to reduce the flow from either the pump discharge line or the bailer during sample collection to minimize sample agitation.
2. During sample collection, make sure that the pump discharge line or the bailer does not contact the sample container.
3. Place the sample into appropriate, labeled containers. Samples collected for VOC, and alkalinity analysis must be collected without headspace. All other sample containers must be filled with an allowance for ullage.
4. All samples requiring preservation must be preserved as soon as practically possible, ideally immediately at the time of sample collection. If pre-preserved VOC vials are used, these will be preserved with concentrated hydrochloric acid by Analytical Services Branch (ASB) personnel prior to departure for the field investigation. For all other chemical preservatives, SESD will use the appropriate chemical preservative generally stored in an individual single-use vial as described in the SESD Operating Procedure for Field Sampling Quality Control (SESDPROC-011). The adequacy of sample preservation will be checked after the addition of the preservative for all samples except for the samples collected for VOC analysis. If additional preservative is needed, it should be added to achieve adequate preservation. Preservation requirements for groundwater samples are found in the USEPA Region 4 Analytical Services Branch Laboratory Operations and Quality Assurance Manual (ASBLOQAM), most recent version.



5. Sample containers should be placed in an ice-filled cooler as soon as possible after filling. Ice in coolers should be in bags with minimal pooled water and the cooler should be periodically checked and replenished to maintain sample storage temperature.

## **2.4 Quality Control**

Equipment blanks should be collected if equipment is field cleaned and re-used on-site or if necessary to document that low-level contaminants were not introduced by pumps, bailers, tubing, or other sampling equipment.

Where appropriate, a background sample upgradient of all known influences or a control sample upgradient of site influences may be indicated. Background and control samples should be collected as close to the sampled area as possible and from the same water-bearing formation as the site samples.

## **2.5 Records**

Information generated or obtained by SESD personnel will be organized and accounted for in accordance with SESD records management procedures found in SESD Operating Procedure for Control of Records, SESDPROC-002. Field notes, recorded in a bound field logbook, will be generated, as well as chain-of-custody documentation in accordance with SESD Operating Procedure for Logbooks, SESDPROC-010 and SESD Procedure for Sample and Evidence Management, SESDPROC-005.

## 3 Groundwater Purging and Sampling

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### 3.1 Overview of Purging and Sampling Strategies

Purging is the process of removing stagnant water from a well, immediately prior to sampling, causing its replacement by groundwater from the adjacent formation that is representative of aquifer conditions. Sampling is the process of obtaining, containerizing, and preserving (when required) a ground water sample after the purging process is complete. There are several approaches to well purging and sampling that may be appropriate in various circumstances or for various combinations of available equipment. They are briefly summarized below and in *Table 1, Purge and Sample Strategies with Equipment Considerations*.

The **Multiple-Volume Purge** method involves removing a minimum of three well volumes of water from the top of the water column and then sampling when the well has achieved stability of water quality parameters and adequately low turbidity. This is a traditional method and consistent results are generally obtained with samplers of varying skill. A drawback is that large volumes of purge water may be produced for large diameter or deep wells.

The **Low-Flow** method involves purging the well at a relatively low flow rate that minimizes drawdown, with the pump or tubing inlet located within the screened interval of the well. The well is sampled when water quality parameters are stable, adequately low turbidity is achieved, and the water level has achieved a stable drawdown (an unchanging water level). This method is often faster than Multiple-Volume Purge and generates less purge water. The method requires more skill and judgment on the part of the samplers.

The **Multiple-Volume Purge** method and the **Low-Flow** method can be considered equivalent for conventionally screened and filter-packed wells in that they both sample a flow-weighted average of water entering the well during pumping. However, other variables can result in differences between results with the two methods. In repeat sampling events, the sampling design should not change from one method to the other without appropriate cause. The transition should be noted in the report.

**Minimum-Purge** and **No-Purge** methods are based on the assumption that water within the screened interval of the well is at equilibrium with the water in the surrounding aquifer. This assumption should be carefully considered in the use of these methods and various cautions are discussed in sections below. The minimal-purge and no-purge methods are most useful for long-term monitoring and are generally inappropriate for the early stages of investigation. In some cases the methods might be used to gather screening-level data from wells that are too large to practically purge or have other sampling complications.

The **Minimum-Purge** and **No-Purge** methods collect water in the vicinity of the device under near-static conditions and are not equivalent to the multiple-volume purge and Low-Flow methods. Stratification of horizontal flow or vertical flow conditions within the well can result in non-intuitive and deceptive results. A comparison study should be conducted before transitioning a sampling program to the minimal-purge or no-purge methods.

### 3.2 Purging

Wells are purged to eliminate stagnant water residing in the casing and/or screen that has undergone geochemical changes or loss of VOCs. At the conclusion of purging, the desired flow-weighted average of water entering the well under pumping conditions will be available for sampling. Turbidity is often elevated during purging by the disturbance of formation materials at the borehole walls. As many contaminants (metals and many organics) will sorb to the formation particles, a sample including these particles will not represent the dissolved concentrations of the contaminants. Thus, a secondary goal of purging is to reduce the turbidity to the point that the sample will represent the dissolved concentration of contaminants.

In order to determine when a well has been adequately purged, field investigators should monitor, at a minimum, the pH, specific conductance and turbidity of the groundwater removed and the volume of water removed during purging. The measurements should be recorded in a purge table in the field logbook that includes the start time of purging, the parameter measurements at intervals during purging, estimated pumped volumes, depths to water for Low-Flow sampling, and any notes of unusual conditions. A typical purge table used for Low-Flow sampling is reproduced below.

Continuation of sample GW 65-0713

INITIAL  
23.338

TIME	pH (S.U.s)	Spec. Cond. (us/cm)	Temp. (Deg. C)	D.O. (mg/L)	D.O. (% sat.)	ORP (mV)	Turbidity (NTUs)	Water Level (Ft.)	Purge Vol. (gallons)
0930									
0935	5.71	1065	19.6	0.77	8.7	43.9	210	24.83	1/4
1004	5.64	988	20.0	0.36	3.9	222.5	17.8	25.24	2
1026	5.63	959	20.5	0.25	2.7	98	9.95	25.18	3 1/2
1038	5.62	950	20.5	0.21	2.4	75	9.85	25.18	4
1046	5.61	946	20.8	0.21	2.4	73	6.07	25.18	4 1/2
1047									Sample Collection Time

### 3.3 Parameter Stabilization Criteria

With respect to the ground water chemistry, an adequate purge is achieved when the pH and specific conductance of the ground water have stabilized and the turbidity has either stabilized or is below 10 Nephelometric Turbidity Units (NTUs) (twice the Secondary Drinking Water Standard of 5 NTUs).

Stabilization occurs when, for at least three consecutive measurements, the pH remains constant within 0.1 Standard Unit (SU) and specific conductance varies no more than 5 percent. Other parameters, such as dissolved oxygen (DO) or oxidation-reduction potential (ORP), may also be used as a purge adequacy parameter. Normal stability goals for DO are 0.2 mg/L or 10% change in saturation, whichever is greater. DO and ORP measurements must be conducted using either a flow-through cell or an over-topping cell to minimize oxygenation of the sample during measurement. A reasonable ORP stability goal is a range of 20 mV, although ORP is rarely at equilibrium in environmental media and often will not demonstrate enough stability to be used as a purge stabilization parameter. Determining the frequency of measurements has generally been left to 'Best Professional Judgement'. Care is in order, as measurements recorded at frequent intervals with low flow rates can falsely indicate stability of parameters. Several measurements should be made early in the well purge to establish the direction and magnitude of trends, which can then inform the stability decision. Stability parameters should either be not trending, or approaching an asymptote, when a stability determination is made. As a matter of practice, parameter measurements are generally made at 5-10 minute intervals.

Because the measured groundwater temperature during purging is subject to changes related to surface ambient conditions and pumping rates, its usefulness is subject to question for the purpose of determining parameter stability. As such, it has been removed from SESD's list of parameters used for stability determination. Even though temperature is not used to determine stability, it is still advisable to record the temperature of purge water as it is often used in the interpretation of other parameters.

Information on conducting the stability parameter measurements is available in the SESD Operating Procedures for Field pH Measurement (SESDPROC-100), Field Specific Conductance Measurement (SESDPROC-101), Field Temperature Measurement (SESDPROC-102), Field Turbidity Measurement (SESDPROC-103), Field Measurement of Dissolved Oxygen (SESDPROC-106) and Field Measurement of Oxidation-Reduction Potential (SESDPROC-113).

Table 1, Purge and Sample Strategies with Equipment Considerations

Purging Strategy	Purge Eqpt	Sample Eqpt	Comments
<b>Multi-Volume Purge</b>			Overall Method Comments- Advantages: Consistent results can be achieved with minimal skill level required. Common, simple equipment can be used. Disadvantages: Can result in large volumes of purge water. Can take extended periods of time with large diameter wells or long water columns.
In this traditional method, 3-5 well volumes of water are removed from the top of the water column while verifying the stability of water quality parameters. Following the well purge, the well is sampled from the top of the water column.	Bailer	Bailer	Bailers are rarely used for purging due to the effort required, the difficulty of lowering turbidity adequately, and the possibility of aerating the upper water column.
	Electric Submersible Pump	Bailer	Common multiple-volume setup when depth to water exceeds 25 feet. Abbreviated pump decontamination procedure can be used between wells.
	Electric Submersible Pump	Electric Submersible Pump	Requires full pump decontamination and new tubing at each well. In most cases the pump would be deployed to the screened interval instead to perform Low-Flow sampling.
	Peristaltic Pump	Peristaltic Pump	Common, multi-volume setup when depth to water is less than 25 feet. Special sampling techniques are required for the collection of SVOCs and VOCs.
<b>Low-Flow methods</b>			Overall Method Comments- Advantages: Lower volumes of purge water. May be faster, especially with longer water columns. Disadvantages: Requires greater skill for consistent results. Higher tubing costs than multi-volume method.
The pump or tubing inlet is placed within the screened interval and the well is purged to stable water quality parameters while maintaining stable drawdown of the water level.	Electric Submersible Pump	Electric Submersible Pump	Commonly used when depth to water exceeds 25 feet. Pump is cleaned to sample equipment standards prior to sampling each well and new or dedicated tubing used for each well. Concerns have been raised concerning VOC loss from agitation in the turbine section or from sample heating.
	Peristaltic Pump	Peristaltic Pump	Commonly used where depth to water is less than 25 feet. Special sampling techniques required for the collection of SVOCs and VOCs. Concerns have been raised concerning VOC loss from vacuum created in sample tubing.
	Bladder Pump	Bladder Pump	Least danger of VOC loss as entire sample train is under positive pressure and little sample heating occurs. Difficult to remove large volumes of water in reasonable time. Mild surging effect may keep turbidity elevated in sensitive wells.
<b>Minimum-Purge, No-Purge Methods</b>			Overall Method Comments- Advantages: Very little or no waste water. Well suited to repeat sampling events. Likely faster with lower costs. Disadvantages: Not directly equivalent to other methods. Vertical stratification or vertical flow conditions in the screened interval can result in deceptive or non-intuitive analytical results.
Predicated on the assumption that aquifer flow through the well maintains the water in the screened interval in a state equivalent to that in the aquifer. This assumption should be proven or the data qualified. Sampling is conducted with little or no purge, or by equilibrating a sampler in screened interval.	Pumps, various	Pumps, various	In the minimum-purge method, the internal volume of the sample tubing and pump is calculated. One volume of the pump and tubing is purged to flush the equipment and the well is then sampled.
	na	Passive Diffusion Bags	In most common form, a sealed water-filled polyethylene bag is allowed to equilibrate in the water column. Suitable primarily for VOCs. Generally require 2 week minimum in-situ residence time.
	na	Hydrasleeves	Collect a fixed volume of water from a specific interval. Requires duplicate samplers or redeployment for larger volumes. Sorbtion issues may bias results.
	na	Snap sampler	Deploys a sample container in the sampling interval where it is allowed to equilibrate (commonly for two weeks) before being sealed insitu by the sampler mechanism and retrieved. Limited to specific containers.

### 3.4 Multiple-Volume Purge

In the traditional Multiple-Volume Purge method, water is removed from the top of the water column, causing water to enter the screen and flush stagnant casing water upward to be subsequently removed. In recognition of the mixing of fresh and stagnant water in the casing section, a minimum of three well volumes is removed, at which time purging can be terminated upon parameter stabilization. Wells can be assumed to be adequately purged when five well volumes have been removed, although further purging may be conducted to meet specific goals, such as further reduction of turbidity.

#### 3.4.1 Purge Volume Determination

Prior to initiating the purge, the amount of water standing in the water column (water inside the well riser and screen) should be determined. The diameter of the well is determined and the water level and total depth of the well measured and recorded prior to inserting a pump or tubing into the well. The water level is subtracted from the total depth, providing the length of the water column. Specific methodology for obtaining these measurements is found in SESD Operating Procedure for Groundwater Level and Well Depth Measurement (SESDPROC-105).

Once this information is obtained, the volume of water to be purged can be determined using one of several methods. The well volume can be calculated using the equation:

$$V = 0.041 d^2h$$

Where:

h = length of water column in feet

d = diameter of well in inches

V = one well volume in gallons

Alternatively, the volume of standing water in the well and the volume of three water columns may be determined using a casing volume per foot factor for the appropriate diameter well, such as *Table 2 Well Casing Diameter Volume Factors*. The water column length is multiplied by the appropriate factor in the Table 2 to determine the single well volume, three well volumes, or five well volumes for the well in question. Other acceptable methods include the use of nomographs or other equations or formulae.

**TABLE 2, WELL CASING DIAMETER VOLUME FACTORS**

		Reference	Minimum purge	Maximum purge*
		1 Well Volume (gallons/ft)	3 Well Volumes (gallons/ft)	5 Well Volumes (gallons/ft)
Well Casing Diameter (in)	0.5	0.01	0.03	0.05
	0.75	0.02	0.07	0.11
	1	0.04	0.12	0.20
	2	0.16	0.49	0.82
	3	0.37	1.1	1.8
	4	0.65	2.0	3.3
	5	1.0	3.1	5.1
	6	1.5	4.4	7.3
	7	2.0	6.0	10.0
	8	2.6	7.8	13.1
	9	3.3	9.9	16.5
	10	4.1	12.2	20.4
	11	4.9	14.8	24.7
	12	5.9	17.6	29.4
	13	6.9	20.7	34.5
	14	8.0	24.0	40.0
	15	9.2	27.5	45.9
	16	10.4	31.3	52.2
18	13.2	39.7	66.1	
24	23.5	70.5	118	
36	52.9	159	264	
48	94.0	282	470	

**\* See text for discussion on terminating purge at five well volumes**

An adequate purge is normally achieved when three to five well volumes have been removed. The field notes should reflect the single well volume calculations or determinations, according to one of the above methods, and a reference to the appropriate multiplication of that volume, i.e., a minimum three well volumes, clearly identified as an initial purge volume goal.

### ***3.4.2 Pumping Conditions***

The pump or tubing inlet should be located at the top of the water column. If the pump is placed deep into the water column, the water above the pump may not be removed, and the subsequent samples, particularly if collected with a bailer, may not be representative of the aquifer conditions. If the recovery rate of the well is faster than the pump rate and no observable draw down occurs, the pump should be raised until the intake is as close as possible to the top of the water column for the duration of purging. If the pump rate exceeds the recovery rate of the well, the pump or tubing will have to be lowered to accommodate the drawdown.

### ***3.4.3 Stability of Chemical Parameters***

In the multiple-volume purge method, a stability determination may be made after three well volumes have been removed. If the chemical parameters have not stabilized according to the above criteria, additional well volumes (up to a total of five well volumes) should be removed. If the parameters have not stabilized after the removal of five well volumes, it is at the discretion of the project leader whether or not to collect a sample or to continue purging. If, after five well volumes, pH and conductivity have stabilized and the turbidity is still decreasing and approaching an acceptable level, additional purging should be considered to obtain the best sample possible.

### ***3.4.4 Sample Collection***

There are several means by which sampling can proceed after adequate volume has been purged and water quality parameters have stabilized. If a submersible pump and tubing are of suitable material and cleanliness for sample collection, sampling can proceed immediately by directly filling bottles from the tubing outlet. Commonly with the multiple-volume purge method, the pump is set up and cleaned in a manner suitable only for purging. In these cases, the pump is stopped and removed from the well and sampling proceeds with a bailer per the procedure described in Section 3.6.3. The pump should have a check valve to prevent water in the pump tubing from discharging back into the well when the pump is stopped. If a peristaltic pump is used, sampling can proceed as described in Section 3.6.1.

## **3.5 Low-Flow Method**

This method involves placing the pump or tubing inlet within the screened interval of the well and purging at a low enough rate to achieve stable drawdown and minimal depression of the water level. The well is sampled without interruption after field parameters are stable and low turbidity is achieved. In general, only water in the screened interval of the well is pumped and the stagnant water in the well casing above the screen is not removed. Wells can generally be sampled in less time with less purge volume than with the multi-volume purge method. More attention is required in the assessment of stability criteria than the multi-volume method.



### ***3.5.1 Nomenclature***

A variety of terminology has been used to describe this method by SESD and others, including: 'low flow', 'low-flow/low-volume', 'tubing-in-screen method', 'low flow/minimal drawdown', and 'micropurge'. The current preferred SESD terminology for this method is 'Low-Flow'. As the term 'micropurge' is sometimes used to refer to minimal-purge methods and has been trademarked by a vendor, the use of 'micropurge' to describe the Low-Flow method generally introduces ambiguity and confusion and thus the use of the term is discouraged.

### ***3.5.2 Placement of Pump Tubing or Intake***

The inlet of the pump tubing or intake of the submersible pump is placed in the approximate mid-portion of the screened interval of the well. While it is often thought that particular aquifer zones can be targeted by specific pump or intake placement, for conventionally constructed screened and filter-packed monitoring wells the zone monitored is only weakly dependent on the intake placement (Varljen, Barcelona, Obereiner & Kaminski, 2006).

The pump or tubing can be placed by carefully lowering them to the bottom of the well and then withdrawing half of the screen length, plus the length of any sump sections at the bottom of the well. A drawback of this approach is that it may stir up sediment at the well bottom. An alternate approach is to lower the pump or tubing a measured distance to place it at mid-screen without touching the bottom of the well. In the case of pumps, special care should be used in lowering them slowly, especially in the screened interval, to prevent elevating turbidity needlessly by the surging action of the pump.

### ***3.5.3 Conditions of Pumping***

Prior to initiation of pumping, a properly decontaminated well sounder should be lowered into the well to measure the water level prior to and during the purging process. Ideally, there should be only a slight and stable drawdown of the water column after pumping begins. In some cases, it will be necessary for the well to drawdown a considerable distance (10 ft or more in extreme cases) to maintain a minimal usable pumping rate for sampling (100-200 ml/min). Excessive pump rates and drawdown can result in increased turbidity, or aeration of the sample if the screen is exposed. Stable drawdown is an essential condition of the Low-Flow method. If the stable drawdown condition cannot be met, then one of the other methods should be employed.

### ***3.5.4 Stability of Chemical Parameters***

As with the Multiple-Volume Purging method described, it is important that all chemical parameters be stable prior to sampling. It is common for wells to require the removal of one or more screened-interval volumes (~2 gal for a 10 ft screen in a 2" dia. well) to achieve stability. Although it is possible for wells to achieve stability with lower purge volumes, the sampler should exercise caution in making an early stability determination.

### 3.5.5 Sample Collection

Low-Flow sampling is implemented using a pump and tubing suitable for sampling. After making the determination of parameter stability with stable drawdown, sampling can proceed immediately. Where submersible or bladder pumps are used, sampling can proceed by directly filling bottles from the tubing outlet. Where peristaltic pumps are used, sampling can proceed per the procedure described in Section 3.6.3.

## 3.6 Minimum-Purge and No-Purge Sampling

The Minimum-Purge and No-Purge sampling methods are employed when it is necessary to keep purge volumes to an absolute minimum, where it is desirable to reduce long-term monitoring costs, or where large wells or other limitations prevent well purging. The underlying assumption when employing these methods is that the water within the well screen is equilibrated with the groundwater in the associated formation. This assumption should be demonstrated prior to use of these methods or the results suitably qualified. These methods are generally impractical for SESD to implement because of the common lack of hydrogeological information in early investigative phases and the necessity with some methods that the samplers be pre-deployed to allow equilibration.

Vertical flow conditions and stratification of the water column have also been known to result in deceptive and non-intuitive analytical results. The use of these methods in the early phases of investigation can easily result in misinterpretation of site conditions and plume boundaries.

Particular caution is in order in the use of these methods when any of the following conditions exist:

- Low hydraulic conductivity ( $K < 10^{-5}$  cm/sec)
- Low groundwater surface gradients
- Fractured bedrock
- Wells with long screened intervals
- Wells screened in materials of varying hydraulic conductivities

If it is desired to transition a long-term monitoring program to Minimum-Purge or No-Purge sampling, a pilot study should be conducted where the Minimum-Purge or No-Purge sample results are compared to the conventional methods in use. Multiple samplers may be deployed in the screened interval to help establish appropriate monitoring intervals.

These methods are in common use and for the purposes of the SESD quality system they can be considered standard, but unaccredited, procedures. Several Minimum-Purge or No-Purge procedures that might be employed are shown below. It is not the intention to recommend particular equipment or vendors, and other equipment that can accomplish the same goals may be suitable.

### ***3.6.1 Minimum Purge Sampling***

The pump or tubing inlet is deployed in the screened interval. A volume of water equal to the internal pump and tubing volume is pumped to flush the equipment. Sampling then proceeds immediately. While superficially similar to Low-Flow sampling, the results obtained in this method will be sensitive to the vertical pump or tubing inlet placement and are subject to the limitations described above.

### ***3.6.2 Passive Diffusion Bags***

The no-purge Passive Diffusion Bag (PDB) typically consists of a sealed low-density polyethylene (LDPE) bag containing deionized water. They are deployed in the screened interval of a well and allowed to equilibrate, commonly for two weeks, prior to retrieval and decanting of the water into sample containers. Many volatile organic compounds will reach equilibrium across the LDPE material, including BTEX compounds and many chlorinated solvents. Compounds showing poor equilibration across LDPE include acetone, MTBE, MIBK, and styrene. PDBs have been constructed of other materials for sampling other analytes, but the vast majority of PDB samplers are of the LDPE material. Various vendors and the Interstate Technology and Regulatory Council (ITRC) can provide additional information on these devices.

### ***3.6.3 HydraSleeves™***

HydraSleeves™ are no-purge grab sampling devices consisting of a closed-bottom sleeve of low-density polyethylene with a reed valve at the top. They are deployed in a collapsed state to the desired interval and fill themselves through the reed valve when pulled upward through the sampling interval. The following is a summary of their operation:

**Sampler placement** – A reusable weight is attached to the bottom of the sampler or the sampler is clipped to a weighted line. The HydraSleeve™ is lowered on the weighted line and placed with the top of the sampler at the bottom of the desired sampling interval. In-situ water pressure keeps the reed valve closed, preventing water from entering the sampler. The well is allowed to return to equilibrium.

**Sample collection** - The reed valve opens to allow filling when the sampler is moved upward faster than 1 foot per second, either in one continuous upward pull or by cycling the sampler up and down to sample a shorter interval. There is no change in water level and only minimal agitation during collection.

**Sample retrieval** - When the flexible sleeve is full, the reed valve closes and the sampler can be recovered without entry of extraneous overlying fluids. Samples are removed by puncturing the sleeve with the pointed discharge tube and draining the contents into containers for sampling or field parameter measurements.

Because the HydraSleeve™ is retrieved before equilibration can occur and they are constructed of non-Teflon® materials, there may be issues with sorbtion of contaminants in the use of this sampler.

### **3.6.4 Snap Samplers**

The Snap Sampler is a patented no-purge groundwater sampling device that employs a double-end-opening bottle with “Snap” sealing end caps. The dedicated, device is deployed at the desired position in the screened interval with up to six Snap Samplers and six individual sampling bottles. The device is allowed to equilibrate in the screened interval and retrieved between 3 and 14 days after deployment. Longer deployments are possible to accommodate sampling schedules.

To operate, Snap Samplers are loaded with Snap Sampler bottles and the "Snap" caps are set into an open position. Samplers are deployed downhole with an attachment/trigger line and left to equilibrate downhole. To collect samples, the Snap Sampler bottles seal under the water surface by pulling a mechanical trigger line, or using an electric or pneumatic trigger system. The trigger releases Teflon® "Snap Caps" that seal the double-ended bottles. The end caps are designed to seal the water sample within the bottles with no headspace vapor. After the closed vial is retrieved from the well, the bottles are prepared with standard septa screw caps and labeled for laboratory submittal.

The manufacturer of the Snap Sampler provides considerable additional information on the validation and use of the device.

## **3.7 Equipment Considerations**

Equipment choices are dictated by the purging and sampling method used, the depth to water, the quantity of water to be pumped, and quality considerations. The advantages and disadvantages of various commonly used pumps are discussed in the sections below and summarized in *Table 1, Purge and Sample Strategies with Equipment Considerations*. Additional information on the use of individual pumps is available in SESD Operating Procedure for Pump Operation, SESDPROC-203.

### **3.7.1 Use of Peristaltic Pumps**

Peristaltic pumps are simple, inexpensive, and reliable equipment for purging and sampling where the limit of suction is not exceeded (approximately 25-30 vertical feet from the groundwater surface to the pump). When used for sampling, they should be equipped with new Teflon® tubing for each well. The flexible peristaltic pump-head tubing should also be changed between wells.

Samples for organic analyses cannot be exposed to the flexible peristaltic pump-head tubing, both due to the risk that the tubing would sorb contaminants and the propensity of this tubing to contribute organic compounds to the sample. Samples can be collected without contact with the pump-head tubing by the use of vacuum transfer caps for

analyses requiring 1 liter glass containers and the use of the 'soda-straw' method for the filling of VOC vials.

The sample containers for the more turbidity-sensitive analyses are filled first, as filling the VOC vials (and to a lesser extent the glass bottles) may disturb the well and increase turbidity. The most appropriate order of sampling with a peristaltic pump is generally to fill poly containers for metals and classical analyses, followed by glass bottles for SVOCs and associated analyses, and finally to fill 40 ml VOC vials.

The following step-by-step procedure assumes that the pump has been set up per SESD Operating Procedure for Pump Operation (SESDPROC-203) and that containers for a typical full suite of analyses will be filled. The procedure is suitable for use with either multi-volume Purge and Low-Flow methods with minor differences in the collection of VOCs:

1. Deploy the lower end of the tubing to the desired point in the well. This would be the top-of-water for the multi-volume purge method or to the mid-screen for the Low-Flow method. Connect the well tubing to the flexible pump-head tubing and connect a short piece of tubing from the pump-head tubing to a measuring bucket.
2. Turn on the pump and establish a suitable pumping rate. For the multi-volume purge method, the rate will generally be a relatively fast rate that the well will sustain without elevating turbidity. For the low-flow method the pump rate is established at a slower rate to maintain a minimal and stable drawdown level.
3. Proceed with the measurement of water quality parameters and adjust the pump rate as needed to achieve low turbidity and stable drawdown.
4. When the well purge has been determined to be sufficient, fill containers for metals and classical analyses directly from the pump outlet. There is no need to interrupt pumping. The tubing should be held at the opening of the container and should not touch the container during filling. Protect caps from dust and debris during filling.
5. After filling the containers for metals and classical analyses stop the pump. Make sure that the tubing leading into the well is secured against movement during the following operations.
6. Create a crimp in the well tubing approximately one foot from the pump and grasp the crimped tubing in one hand. It is generally most effective to create a double 'Z' crimp.
7. Cut the sample tubing between the crimp and the pump. The tightly-held crimped tubing should keep water from running back into the well. In lieu of

cutting the tubing, the well tubing can be disconnected from the pump and a short piece of tubing connected in its place.

8. Insert both free ends of the tubing into the ferrule-nut fittings of a pre-cleaned Teflon® transfer cap assembly and tighten the nuts. Attach the transfer cap assembly to the first glass container for semi-volatile analysis and securely tighten the threaded ring.
9. Turn the pump on. Very slowly release the 'Z' crimp in the sample tubing. As vacuum builds up in the sample container, water should begin to move up the sample tubing instead of back into the well. If after several minutes water has not begun moving up the tubing, check the tightness of fittings and the attachment of the cap to the bottle. Allowing water to rush back down the tubing from the 'Z' crimp can surge the well and elevate turbidity.
10. Fill the container to about halfway between the shoulder and the neck. Crimp the well tubing. Move the transfer cap to any additional bottles and repeat the filling process.
11. When finished filling bottles with the transfer cap, again crimp the tubing. Remove the well tubing from the transfer cap and reattach it to the pump. Slowly run the pump and release the crimp until water is approaching the flexible peristaltic tubing.
12. Make a kink or otherwise mark the tubing at the top of the casing in case the tubing needs to be reinserted for additional sample volume. Slowly remove the tubing from the well and coil it in one hand in loose coils. With the top end of the tubing blocked, water is retained in the tubing as it is withdrawn, much as in a capped soda straw, hence the name for this method.
13. Remove the top from a 40 ml VOC vial and position the end of the sample tubing near the top of the vial. Reverse the pump direction and turn the speed knob to its slowest position. Turn on the pump and slowly increase speed until water slowly fills the vial. Fill the vial with a slow laminar flow that does not agitate the water in the vial or entrain bubbles. Continue to fill the vial until a convex meniscus forms on the top of the vial and turn off the pump.
14. Carefully screw the septum-lid to the vial and fasten firmly. Invert the vial and tap on your knuckles to check for bubbles. Carefully add additional volume to the vial if necessary. Small bubbles are undesirable but may be unavoidable with some media, especially when using pre-preserved vials.
15. Repeat the filling process for additional vials. Avoid partially filling vials as the available water in the tubing is used. If more volume is required than that contained in the tubing, purge the remaining water from the tubing and reinsert

the tubing in the well to the level marked previously. Run the pump to refill the tubing. If performing Low-Flow sampling, run additional volume through the pump to purge any water that may have been collected from the stagnant water column.

16. Fill additional vials as needed. Be sure that any water that has contacted the flexible peristaltic tubing is not pumped into a vial.

### ***3.7.2 Use of Submersible Centrifugal Pumps***

Submersible centrifugal pumps are used in wells of 2” diameter and larger. They are especially useful where large volumes of water are to be removed or when the groundwater surface is a large distance below ground surface. Commonly used pumps are the Grundfos® Redi-Flo2, the Geotech GeoSub, and the various ‘Monsoon’ style pumps. Other pumps are acceptable if constructed of suitable materials.

When used with the Multiple-Volume Purge method, the pump is generally used only to purge, with sampling performed with a bailer. In this use, the pump can be used with polyethylene or other tubing or hose that will not contribute contaminants to the well. The pump and tubing is decontaminated between wells per the relevant provisions of SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205). When used in this application the pump should be equipped with a check valve to prevent water in the discharge tubing or hose from running back down into the well.

When used for Low-Flow purging and sampling the pump must be constructed of stainless steel and Teflon®. Pump cleaning at each well follows the more stringent procedures described in SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205) for this application. The sample tubing should be either new Teflon® tubing, or tubing dedicated to each well. Dedicated tubing would ideally be cleaned between uses, but tubing stored in the well casing between uses is acceptable, although caution should be exercised where very high concentrations of contaminants have been sampled in a well.

### ***3.7.3 Use of Bailers***

Bailers are a common means of sampling when the Multiple-Volume Purge method is used. They are occasionally used for purging when other equipment is not available or has failed. As bailers surge the well on each withdrawal, it is very difficult to lower turbidity adequately during a well purge, and when used for sampling they can elevate turbidity in a well before all sample volume is collected. If not lowered carefully into the top of the water column, the agitation may strip volatile compounds. Due to the difficulties and limitations inherent in their use, other sampling or purging means should generally be given preference.

Bailers should be closed-top Teflon® bailers with Teflon® coated stainless steel leaders used with new nylon haul rope. They are lowered gently into the top of the water column, allowed to fill, and removed slowly. It is critical that bailers be slowly and gently immersed into the top of the water column, particularly during final stages of purging and during sampling, to minimize turbidity and loss of volatile organic constituents.

If the well has previously been purged with a pump, there is likely stagnant water at the top of the well that was above the pump or tubing inlet. Several bailers of water should be retrieved and discarded to assure the upper stagnant water has been removed.

When sampling, containers are filled directly by pouring from the outlet at the top of the bailer. Containers for metals analysis should be filled first in case the bailing process increases well turbidity. VOC vials should be filled carefully and slowly with a laminar flow to reduce agitation and the stripping of VOCs.

#### ***3.7.4 Use of Bladder Pumps***

Bladder pumps use a source of compressed gas to compress and release a bladder straddled by check valves within the pump body. As the bladder is compressed, water is expelled out the upper check valve to the surface. When gas pressure is released, the bladder refills as well water enters the lower pump inlet. A control unit is used to control the pressure and timing of the bladder inflation gas flow.

Bladder pumps are capable of pumping from moderate depths to water, but are not capable of high flow rates. As they operate cyclically, the well is surged slightly on each cycle and it may be difficult to lower turbidity in sensitive or poorly developed wells. As the entire sample train is under positive pressure and the pumps develop little heat, they are ideal for sampling VOCs.

Prior to sampling and between each well the pumps are cleaned internally and externally per the provisions of SESD Operating Procedure for Field Decontamination (SESDPROC-205) and a new Teflon® bladder installed. New (or dedicated) Teflon® sample tubing is used at each well, although polyethylene tubing can be used for the compressed gas drive line and cleaned between each well.

#### ***3.7.5 Use of Inertial Pumps***

Inertial pumps consist of a check valve which is affixed to the lower end of semi-rigid tubing. The tubing and valve are cycled up and down, allowing water to alternately be drawn into the check valve inlet and then pulled up towards the surface. Two commonly used inertial pumps are the Waterra® pump for wells larger than 1” and the Geoprobe® Tubing Check Valve for small diameter wells. The primary use of these pumps is in well development where their near-immunity to silt is an advantage. Inertial pumps should not be used for the final well purge or for sampling as there is a low likelihood of



reducing turbidity to appropriate levels and they have the potential to strip volatiles from the water column through agitation.

To set up the pump, the check valve is screwed onto the discharge tubing where it will cut its own threads. In the case of the Waterra® pump, a surge block can also be pressed onto the check valve. The pump is lowered into the well to the screened interval and rapidly cycled up and down a distance of 3” -12”. The stroke length and speed are adjusted for pumping effect. Electric actuators can be used to reduce the effort involved. The pump should be moved to different levels in the screen to surge the entire screen. The pump can occasionally be lowered to the bottom of the well to vacuum out silt. Any silt that clogs the valve is usually quickly rinsed out by the pump cycling and if the clog remains the pump is easily retrieved and redeployed.

The surging activity is usually continued until turbidity is lowered to a measurable range and cannot easily be lowered further. Further development or purging is then conducted with other pumps.

### **3.8 Wells With In-Place Plumbing**

Wells with in-place plumbing are commonly found at municipal water treatment plants, industrial water supplies, private residences, and in other applications. Many permanent monitoring wells at active facilities are also equipped with dedicated, in-place pumps.

A permanent monitoring well with an in-place pump may be treated as other monitoring wells without pumps. Since the in-place pump is generally “hard” mounted at a pre-selected depth, it cannot be moved up or down during purging and sampling. If the pump inlet is above the screened interval, the well should be sampled using the Multiple-Volume Purge method. If the pump intake is located within the screened interval, the well can be sampled using Low-Flow procedures. Known details of pump type and construction, tubing types, pump setting depths, and any other available information about the system should be recorded in the field logbook.

In the case of the other types of wells, e.g., municipal, industrial and residential supply wells, there is typically not enough known about the construction aspects of the wells to apply the same criteria as used for monitoring wells. The volume to be purged in these situations therefore depends on several factors: whether the pumps are running continuously or intermittently and whether or not any storage/pressure tanks are located between the sampling point and the pump. The following considerations and procedures should be followed when purging wells with in-place plumbing under the conditions described.

#### ***3.8.1 Continuously Running Pumps***

If the pump runs more or less continuously, no purge (other than opening a valve and allowing it to flush for a few minutes) is necessary. If a storage tank is present, a spigot,

valve or other sampling point should be found located between the pump and the storage tank. If no valve is present, locate and use the valve closest to the tank. Measurements of field parameters are recorded immediately prior to the time of sampling.

### ***3.8.2 Intermittently or Infrequently Running Pumps***

If the pump runs intermittently or infrequently, best judgment should be utilized to remove enough water from the plumbing to flush standing water from the piping and any storage tanks that might be present. Often under these conditions, 15 to 30 minutes of purging will be adequate. Measurements of pH, specific conductance, temperature and turbidity should be made and recorded at intervals during the purge and the final measurements made at the time of sampling should be considered the measurements of record for the event.

## **3.9 Temporary Monitoring Wells**

### ***3.9.1 General Considerations***

As temporary wells are installed for immediate sample acquisition, the procedures used to purge temporary ground water monitoring wells may differ from those for permanent wells. Temporary wells include standard well screen and riser placed in boreholes created by hand augering or drilling, or they may consist of a drive rod and screen such as a direct-push Geoprobe® Screen Point that is driven into place at the desired sampling interval. As aquifer water enters the sampler immediately upon deployment, the requirement to remove several volumes of water to replace stagnant water does not necessarily apply. In practice, developing and purging the well to usable turbidity levels will remove many times the water that would be removed in a Multiple-Volume Purge with calculated well volumes. It is important to note, however, that the longer a temporary well is in place and not sampled, the more stagnant the water column becomes and the more appropriate it becomes to apply standard permanent monitoring well purging criteria to achieve representative aquifer conditions in the sample.

### ***3.9.2 Development of Temporary Wells***

In cases where the temporary well is to be sampled immediately after installation, purging is conducted primarily to mitigate the impacts of installation. In most cases, temporary well installation procedures disturb the existing aquifer conditions, causing extreme turbidity. The goal of purging is to reduce the turbidity and remove the volume of water in the area directly impacted by the installation procedure.

The following procedure has been found to be effective in developing and sampling small diameter temporary wells where a peristaltic pump can be used. Turbidity can generally be lowered to 50 NTU at the time of sampling and turbidity less than 10 NTU is often achieved.

1. Cut peristaltic tubing to reach to the bottom of the well. Connect to a peristaltic pump and begin pumping at a high rate.
2. Use the tubing to vacuum out sediment at the bottom of the well.
3. Aggressively surge the end of the tubing in the screened interval by cycling the tubing rapidly up and down. Periodically repeat vacuuming of the well bottom.
4. When a visible 'break' to a lower turbidity is observed, cease surging the well and begin lowering the pumping rate.
5. When the water clears (turbidity < 100-200 NTU) begin raising the end of the tubing to the top of the water column.
6. Continue purging from the top of the water column, lowering the pump speed as required to lower turbidity. When adequately low turbidity and stable water quality parameters have been achieved, sampling can proceed.

Where the water level is below the limit of suction in a small diameter temporary well, a Geoprobe® mechanical bladder pump can be used for purging and sampling. The well should first be developed with an inertial pump to remove the bulk of silt and suspended particles that could clog the check valves of the bladder pump. The inertial pump is used to vacuum out the bottom of the well and surged in the screened interval until a 'break' to lower turbidity is observed prior to deployment of the bladder pump. Since the mechanical bladder pump requires cumbersome redeployment to change its pumping level, it should be deployed low enough in the water column that the water level will not be lowered below the pump during purging and sampling. The mechanical bladder pump is generally deployed above the screened interval to facilitate the settling of particles, but below the top of the water column to alleviate the need to reset the pump. Detailed instructions on the deployment of the pump can be found in SESDPROC203, Pump Operation.

### ***3.9.3 Decommissioning of Temporary Wells***

After temporary wells have fulfilled their purpose, they should be properly decommissioned similar to permanent wells. In general, the casings and screens can be easily removed and the borehole should then be pressure grouted from the bottom of the original borehole to prevent surface contamination of the aquifer, cross-connection of aquifers, and to remove a potential vapor pathway.

Direct-push screen-point wells may be decommissioned by one of two methods.

1. A disposable screen is used. The sampling sheath is pulled off of the screen and a 30% solids bentonite grout is pumped down the tool string as the rods are withdrawn.

Grout volumes are measured during pumping to assure that the hole is completely filled. The disposable screen is left behind at the bottom of the borehole.

2. The screen is removed with the sampler sheath and tool string. The hole is immediately re-entered with an empty sample sheath with disposable point. Upon reaching the original total depth of the temporary well, 30% solids bentonite grout is pumped down the tool string with the pumped volume monitored during tool string withdrawal to assure that the hole is completely filled.

A system is available to insert a small diameter grouting tube down through the screen-point screen. Grout is pumped through the grouting tube while the tools are withdrawn. SESD does not use this system as grout denser than 20% solids cannot reliably be installed with this system.

Additional guidance on decommissioning may be found in SESDGUID-101, Design and Installation of Monitoring Wells.

#### ***3.9.4 Other Considerations for Direct-Push Groundwater Sampling***

With certain direct push sampling techniques, such as the Hydropunch™ and other discrete samplers used with cone-penetrometer rigs, purging is either not practical or not possible. The sampling device is simply pushed or driven to the desired depth and opened, whereupon the sample is collected and retrieved. As a result, some samples collected in this way may not be satisfactory or acceptable for certain analyses, i.e., the sampler may collect a turbid sample inappropriate for metals analyses or the sample may have inadequate volume to achieve desired reporting levels.

### **3.10 Wells Purged to Dryness**

In some situations, even with slow purge rates, a well may be purged dry in the Multiple-Volume Purge method or stable drawdown cannot be maintained in the Low-Flow method. In these cases, the well should be purged to dryness (evacuated) and sampled upon recovery of adequate volume for sampling. Sampling should occur as soon as adequate volume has recovered. The field parameters should be measured and recorded at the time of sample collection as the measurements of record for the sampling event.

Sampling under these conditions is not ideal and suitable qualifications of the data should be included in the report. Water cascading down the screen into the well may strip volatile compounds and elevate turbidity. Although suffering from other limitations, No-Purge methods may prove useful for these wells.

## **4 Additional Purging and Sampling Considerations**

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### **4.1 Field Care of Purging Equipment**

New plastic sheeting should be placed on the ground surface around the well casing to prevent contamination of the pumps, hoses, ropes, etc., in the event they accidentally come into contact with the ground surface or, for some reason, they need to be placed on the ground during the purging event. It is preferable that hoses used in purging that come into contact with the ground water be kept on a spool or contained in a large wash tub lined with plastic sheeting, both during transportation and during field use, to further minimize contamination by the transporting vehicle or the ground surface.

Careful consideration shall be given to using submersible centrifugal or bladder pumps to purge wells which are excessively contaminated with oily compounds as it may be difficult to adequately decontaminate severely contaminated pumps under field conditions. When wells of this type are encountered, alternative equipment, such as bailers or peristaltic pumps, should be considered.

### **4.2 Investigation Derived Waste**

Purging and field cleaning of equipment generates liquid investigation derived waste (IDW), the disposition of which must be considered. See SESD Operating Procedure for Management of Investigation Derived Waste (SESDPROC-202) for guidance on management or disposal of this waste.

### **4.3 Sample Preservation**

After sample collection, all samples requiring preservation must be preserved as soon as practical. Consult the Analytical Services Branch Laboratory Operations and Quality Assurance Manual (ASBLOQAM) for the correct preservative for the particular analytes of interest. All samples preserved using a pH adjustment (except VOCs) must be checked, using pH strips, to ensure that they were adequately preserved. This is done by pouring a small volume of sample over the strip. Do not place the strip in the sample. Samples requiring reduced temperature storage should be placed on ice immediately.

### **4.4 Special Sample Collection Procedures**

#### ***4.4.1 Trace Organic Compounds and Metals***

Special sample handling procedures should be instituted when trace contaminant samples are being collected. All sampling equipment, including pumps, bailers, water level measurement equipment, etc., which contacts the water in the well must be cleaned in accordance with the cleaning procedures described in the SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205) or SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-

206). Pumps should not be used for sampling unless the interior and exterior portions of the pump and the discharge hoses are thoroughly cleaned. Rinse blank samples should be collected to verify the adequacy of cleaning when using a sampling pump other than a peristaltic pump.

#### ***4.4.2 Order of Sampling with Respect to Analytes***

In many situations when sampling permanent or temporary monitoring wells, sufficiently low turbidity is difficult to achieve and maintain. Removal and insertion of equipment after the purge or during sampling may negate the low turbidities achieved during purging and elevate turbidity back to unacceptable levels. For this reason, it is important that special efforts be used to minimize any disturbance of the water column after purging and to fill sample containers for metals analysis first. The preferred order of sampling is metals first, followed by other inorganic analytes, extractable organic compounds, and finally volatile organic compounds.

### **4.5 Filtering**

As many contaminants are known to sorb to soil particles, the normal goal of sampling is to reduce the presence of these particles (measured by turbidity) in order that the dissolved concentration of contaminants can be obtained. However, transport of sorbed contamination on colloidal particles can be a means of contaminant transport on some sites. For this reason, the SESD approach is to reduce turbidity through the careful purging of wells, rather than through filtering of samples, in order that the colloidal particles would be included in the sample.

As a standard practice, ground water samples will not be filtered for routine analysis. Filtering will usually only be performed to determine the fraction of major ions and trace metals passing the filter and used for flow system analysis and for the purpose of geochemical speciation modeling. Filtration is not acceptable to correct for improperly designed or constructed monitoring wells, inadequate well development, inappropriate sampling methods, or poor sampling technique.

When samples are collected for routine analyses and are filtered, both filtered and non-filtered samples will be submitted for analyses. Samples for organic compounds analysis should not be filtered. Prior to filtration of the ground water sample for any reason other than geochemical speciation modeling, the following criteria must be demonstrated to justify the use of filtered samples for inorganic analysis:

1. The monitoring wells, whether temporary or permanent, have been constructed and developed in accordance with the SESD Guidance Document, Design and Installation of Monitoring Wells (SESDGUID-001).
2. The ground water samples were collected using sampling techniques in accordance with this section, and the ground water samples were analyzed in accordance with USEPA approved methods.

3. Efforts have been undertaken to minimize any persistent sample turbidity problems. These efforts may consist of the redevelopment or re-installation of permanent ground water monitoring wells or the implementation of carefully conducted low flow rate sampling techniques.

If filtration is necessary for purposes of geochemical modeling or other **pre-approved** cases, the following procedures are suggested:

1. Accomplish in-line filtration through the use of disposable, high capacity filter cartridges (barrel-type) or membrane filters in an in-line filter apparatus. The high capacity, barrel-type filter is preferred due to the higher surface area associated with this configuration. If a membrane filter is utilized, a minimum diameter of 142 mm is suggested.
2. When using pumps for sampling, the filter can generally be attached directly to the pump outlet. When sampling with a bailer or when otherwise required, an initial unfiltered sample with extra volume will be collected, and a peristaltic pump with filter used to decant and filter the sample to the final sample container.
3. Use a 0.45  $\mu\text{m}$  pore-size filter to remove most non-dissolved particles. A 5  $\mu\text{m}$  or 10  $\mu\text{m}$  pore-size filter should be used for the purpose of determining colloidal constituent concentrations.
4. Fill the filter and rinse with approximately one additional filter volume prior to filling sample bottles

Potential differences can result from variations in filtration procedures used to process water samples for the determination of trace element concentrations. A number of factors associated with filtration can substantially alter "dissolved" trace element concentrations; these include filter pore size, filter type, filter diameter, filtration method, volume of sample processed, suspended sediment concentration, suspended sediment grain-size distribution, concentration of colloids and colloidal-associated trace elements, and concentration of organic matter. Therefore, consistency is critical in the comparison of short-term and long-term results. Further guidance on filtration may be obtained from the following: 1) Metals in Ground Water: Sampling Artifacts and Reproducibility; 2) Filtration of Ground Water Samples for Metals Analysis; and 3) Ground Water Sampling - A Workshop Summary. See Section 1.4, References, for complete citation for these documents.

## 4.6 Bacterial Sampling

Whenever wells (normally potable wells) are sampled for bacteriological parameters, care must be taken to ensure the sterility of all sampling equipment and all other equipment entering the well. Further information regarding bacteriological sampling is available in the following: 1) Sampling for Organic Chemicals and Microorganisms in

the Subsurface; 2) Handbook for Evaluating Water Bacteriological Laboratories; and 3) Microbiological Methods for Monitoring the Environment, Water and Wastes. See Section 1.4, References, for complete citation for these documents.

#### **4.7 Specific Sampling Equipment Quality Assurance Techniques**

All equipment used to collect ground water samples shall be cleaned as outlined in the SESD Operating Procedure for Field Equipment Cleaning and Decontamination (SESDPROC-205) or SESD Operating Procedure for Field Equipment Cleaning and Decontamination at the FEC (SESDPROC-206). Malfunctioning equipment should be labeled in the field and repaired, before being stored at the conclusion of field studies. Cleaning procedures utilized in the field or field repairs shall be thoroughly documented in field records.

#### **4.8 Auxiliary Data Collection**

During ground water sample collection, it is important to record a variety of ground water related data. Included in the category of auxiliary data are water levels measured according to the SESD Operating Procedure for Groundwater Level and Well Depth Measurement (SESDPROC-105), well volume determinations, pumping rates during purging, and, driller or boring logs. This information should be documented in the field records.

#### **4.9 Well Development**

Wells may be encountered that are difficult to sample effectively due to inadequate initial development or the need for redevelopment due to scaling, sedimentation, corrosion, or biofouling. These wells may produce water only at low flow rates or water with chronically elevated turbidity. Redevelopment of these wells should be considered as the process can improve sample quality and speed field operations. Well development procedures are described in Design and Installation of Monitoring Wells (SESDGUID-101).



<b>Region 4</b> <b>U.S. Environmental Protection Agency</b> <b>Laboratory Services and Applied Science Division</b> <b>Athens, Georgia</b>	
<b>Operating Procedure</b>	
Title: Field Equipment Cleaning and Decontamination	ID: LSASDPROC-205-R4
Issuing Authority: LSASD Field Branch Chief	
Effective Date: June 22, 2020	Review Due Date: June 22, 2023

### **Purpose**

This procedure is to be used by Region 4 Laboratory Services and Applied Science Division staff. This document describes general and specific procedures, methods and considerations to be used and observed when cleaning and decontaminating sampling equipment during the course of field investigations. This procedure is to be used by all Region 4 Laboratory Services and Applied Science Division (LSASD) staff.

### **Scope/Application**

The procedures contained in this document are to be followed when field cleaning sampling equipment, for both re-use in the field, as well as used equipment being returned to the Field Equipment Center (FEC). On the occasion that LSASD field investigators determine that any of the procedures described in this section are either inappropriate, inadequate or impractical and that other procedures must be used to clean or decontaminate sampling equipment at a particular site, the variant procedure will be documented in the field logbook, along with a description of the circumstances requiring its use. Mention of trade names or commercial products in this operating procedure does not constitute endorsement or recommendation for use.

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## 1 General Information

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### 1.1 Documentation/Verification

This procedure was prepared by persons deemed technically competent by LSASD management, based on their knowledge, skills and abilities and have been tested in practice and reviewed in print by a subject matter expert. The official copy of this procedure resides on the LSASD Local Area Network (LAN). The Document Control Coordinator (DCC) is responsible for ensuring the most recent version of the procedure is placed on LAN and for maintaining records of review conducted prior to its issuance.

### 1.2 Definitions

- Decontamination: The process of cleaning dirty sampling equipment to the degree to which it can be re-used, with appropriate QA/QC, in the field.
- Deionized water: Tap water that has been treated by passing through a standard deionizing resin column. At a minimum, the finished water should contain no detectable heavy metals or other inorganic compounds (i.e., at or above analytical detection limits) as defined by a standard inductively coupled Argon Plasma Spectrophotometer (ICP) (or equivalent) scan. Deionized water obtained by other methods is acceptable, as long as it meets the above analytical criteria. Organic-free water may be substituted for deionized water.
- Detergent shall be a standard brand of phosphate-free laboratory detergent such as Liquinox® or Luminox®. Liquinox® is a traditional anionic laboratory detergent and is used for general cleaning and where there is concern for the stability of the cleaned items in harsher cleaners. Luminox® is a specialized detergent with the capability of removing oils and organic contamination. It is used in lieu of a solvent rinse step in cleaning of equipment for trace contaminant sampling. Where not specified in these procedures, either detergent is acceptable.
- Drilling Equipment: All power equipment used to collect surface and sub-surface soil samples or install wells. For purposes of this procedure, direct push is also included in this definition.
- Field Cleaning: The process of cleaning dirty sampling equipment such that it can be returned to the FEC in a condition that will minimize the risk of transfer of contaminants from a site.
- Organic-free water: Tap water that has been treated with activated carbon and deionizing units. At a minimum, the finished water must meet the analytical criteria of deionized water and it should contain no detectable pesticides, herbicides, or extractable organic compounds, and no volatile organic compounds above minimum detectable levels as determined by the Region 4 laboratory for a given set of analyses. Organic-free water obtained by other methods is acceptable, as long as it meets the above analytical criteria.
- Tap water: Water from any potable water supply. Deionized water or organic-free water may be substituted for tap water.

## 1.3 General Precautions

### 1.3.1 Safety

Proper safety precautions must be observed when field cleaning or decontaminating dirty sampling equipment. Refer to the LSASD Safety, Health and Environmental Management Program (SHEMP) Procedures and Policy Manual and any pertinent site-specific Health and Safety Plans (HASPs) for guidelines on safety precautions. These guidelines, however, should only be used to complement the judgment of an experienced professional. Address chemicals that pose specific toxicity or safety concerns and follow any other relevant requirements, as appropriate. At a minimum, the following precautions should be taken in the field during these cleaning operations:

- When conducting field cleaning or decontamination using laboratory detergent, safety glasses with splash shields or goggles, and latex gloves will be worn.
- No eating, smoking, drinking, chewing, or any hand to mouth contact should be permitted during cleaning operations.

### 1.3.2 Procedural Precaution

Prior to mobilization to a site, the expected types of contamination should be evaluated to determine if the field cleaning and decontamination activities will generate rinses and other waste waters that might be considered RCRA hazardous waste or may require special handling.

## 2 Introduction to Field Equipment Cleaning and Decontamination

### 2.1 General

The procedures outlined in this document are intended for use by field investigators for cleaning and decontaminating sampling and other equipment in the field. These procedures should be followed in order that equipment is returned to the FEC in a condition that will minimize the risk of transfer of contaminants from a site.

Sampling and field equipment cleaned in accordance with these procedures must meet the minimum requirements for the Data Quality Objectives (DQOs) of the study or investigation. If deviations from these procedures need to be made during the course of the field investigation, they will be documented in the field logbook along with a description of the circumstances requiring the use of the variant procedure.

Cleaning procedures for use at the Field Equipment Center (FEC) are found in LSASD Operating Procedure for Equipment Cleaning and Decontamination at the FEC (LSASDPROC-206).

### 2.2 Handling Practices and Containers for Cleaning Solutions

Improperly handled cleaning solutions may easily become contaminated. Storage and application containers must be constructed of the proper materials to ensure their integrity. Following are acceptable materials used for containing the specified cleaning solutions:

- Detergent must be kept in clean plastic, metal, or glass containers until used. It should be poured directly from the container during use.
- Tap water may be kept in tanks, hand pressure sprayers, squeeze bottles, or applied directly from a hose.
- Deionized water must be stored in clean, glass or plastic containers that can be closed for transport. It can be applied from plastic squeeze bottles.
- Organic-free water must be stored in clean glass or Teflon® containers prior to use. It may be applied using Teflon® squeeze bottles, or with the portable system.

### 2.3 Disposal of Cleaning Solutions

Procedures for the safe handling and disposition of investigation derived waste (IDW); including used wash water and rinse water are in LSASD Operating Procedure for Management of Investigation Derived Waste (LSASDPROC-202).

### 2.4 Sample Collection Equipment Contaminated with Concentrated Materials

Equipment used to collect samples of concentrated materials from investigation sites must be field cleaned before returning from the study. At a minimum, this should consist of washing with detergent and rinsing with tap water. When the above procedure cannot be followed, the following options are acceptable:

- Leave with facility for proper disposal;
- If possible, containerize, seal, and secure the equipment and leave on-site for later disposal;
- Containerize, bag, or seal the equipment so that no odor is detected and return to the Field Equipment Center.

It is the project leader's responsibility to evaluate the nature of the sampled material and determine the most appropriate cleaning procedures for the equipment used to sample that material.

### 2.5 Sample Collection Equipment Contaminated with Environmental Media

Equipment used to collect samples of environmental media from investigation sites should be field cleaned before returning from the study. Based on the condition of the sampling equipment, one or more of the following options must be used for field cleaning:

- Wipe the equipment clean;
- Water-rinse the equipment;
- Wash the equipment in detergent and water followed by a tap water rinse.
- For grossly contaminated equipment, the procedures set forth in Section 2.4 must be followed.

Under extenuating circumstances such as facility limitations, regulatory limitations, or during residential sampling investigations where field cleaning operations are not feasible, equipment can be containerized, bagged or sealed so that no odor is detected and returned to the FEC without being field cleaned. If possible, FEC personnel should be notified that equipment will be returned without being field cleaned. It is the project leader's responsibility to evaluate the nature of the sampled material and determine the most appropriate cleaning procedures for the equipment used to sample that material.

## **2.6 Handling of Decontaminated Equipment**

After decontamination, equipment should be handled only by personnel wearing clean gloves to prevent re-contamination. In addition, the equipment should be moved away (preferably upwind) from the decontamination area to prevent re-contamination. If the equipment is not to be immediately re-used, it should be covered with plastic sheeting or wrapped in aluminum foil to prevent re-contamination. The area where the equipment is kept prior to re-use must be free of contaminants.

## **3 Field Equipment Decontamination Procedures**

### **3.1 General**

Sufficient equipment should be transported to the field so that an entire study can be conducted without the need for decontamination. When equipment must be decontaminated in the field, the following procedures are to be utilized.

*Note: Equipment utilized for PFAS sampling will not be cleaned in the field.*

### **3.2 Specifications for Decontamination Pads**

Decontamination pads constructed for field cleaning of sampling and drilling equipment should meet the following minimum specifications:

- The pad should be constructed in an area known or believed to be free of surface contamination.
- The pad should not leak.
- If possible, the pad should be constructed on a level, paved surface and should facilitate the removal of wastewater. This may be accomplished by either constructing the pad with one corner lower than the rest, or by creating a sump or pit in one corner or along one side. Any sump or pit should also be lined.
- Sawhorses or racks constructed to hold equipment while being cleaned should be high enough above ground to prevent equipment from being splashed.
- Water should be removed from the decontamination pad frequently.
- A temporary pad should be lined with a water impermeable material with no seams within the pad. This material should be either easily replaced (disposable) or repairable.

At the completion of site activities, the decontamination pad should be deactivated. The pit or sump should be backfilled with the appropriate material designated by the site project leader, but only after all waste/rinse water has been pumped into containers for disposal. See LSASD Operating Procedure for Management of Investigation Derived Waste (LSASDPROC-202) for proper handling and disposal of these materials. If the decontamination pad has leaked excessively, soil sampling may be required.

### 3.3 "Classical Parameter" Sampling Equipment

"Classical Parameters" are analyses such as oxygen demand, nutrients, certain inorganic compounds, sulfide, flow measurements, etc. For routine operations involving classical parameter analyses, water quality sampling equipment such as Kemmerers, buckets, dissolved oxygen dunkers, dredges, etc., may be cleaned with the sample water or tap water between sampling locations as appropriate.

Flow measuring equipment such as weirs, staff gages, velocity meters, and other stream gauging equipment may be cleaned with tap water between measuring locations, if necessary.

Note: The procedures described in Section 3.3 are not to be used for cleaning field equipment to be used for the collection of samples undergoing trace organic or inorganic constituent analyses.

### 3.4 Sampling Equipment used for the Collection of Trace Organic and Inorganic Compounds

For samples undergoing trace organic or inorganic constituent analyses, the following procedures are to be used for all sampling equipment or components of equipment that come in contact with the sample:

#### 3.4.1 Standard LSASD Method

- An optional Liquinox<sup>®</sup> detergent wash step may be useful to remove gross dirt and soil.
- Clean with tap water and Luminox<sup>®</sup> detergent using a brush, if necessary, to remove particulate matter and surface films.
- Rinse thoroughly with tap water.
- Rinse thoroughly with organic-free water and place on a clean foil-wrapped surface to air-dry.
- Wrap the dry equipment with aluminum foil or bag in clean plastic. If the equipment is to be stored overnight before it is wrapped in foil, it should be covered and secured with clean, unused plastic sheeting.

#### 3.4.2 Alternative Solvent Rinse Method

The historical solvent rinse method of cleaning equipment for trace contaminant sampling remains an acceptable method.

- Clean with tap water and Liquinox<sup>®</sup> detergent using a brush, if necessary, to remove particulate matter and surface films. Equipment may be steam cleaned (Liquinox<sup>®</sup> detergent and high-pressure hot water) as an alternative to brushing. Sampling equipment that is steam cleaned should be placed on racks or saw horses at least two feet above the floor of the decontamination pad. PVC or plastic items should not be steam cleaned.
- Rinse thoroughly with tap water.

- Rinse thoroughly with deionized water.
- Rinse with an appropriate solvent (generally isopropanol).
- Rinse with organic-free water and place on a clean foil-wrapped surface to air-dry.
- Wrap the dry equipment with aluminum foil or plastic. If the equipment is to be stored overnight before it is wrapped, it should be covered and secured with clean, unused plastic sheeting.

### 3.5 Well Sounders or Tapes

The following procedures are recommended for decontaminating well sounders (water level indicators) and tapes. Unless conditions warrant, it is only necessary to decontaminate the wetted portion of the sounder or tape.

- Wash with Liquinox® detergent and tap water.
- Rinse with tap water.
- Rinse with deionized water.

### 3.6 Redi-Flo2® Pump

**CAUTION – Do not wet the controller. Always disconnect power from the pump when handling the pump body.**

The Redi-Flo2® pump and any associated connected hardware (e.g., check valve) should be decontaminated between each monitoring well. The following procedures are required, depending on whether the pump is used solely for purging or used for purging and sampling.

#### 3.6.1 Purge Only (Pump and Wetted Portion of Tubing or Hose)

- Disconnect power and wash exterior of pump and wetted portion of the power lead and tubing or hose with Liquinox® detergent and water solution.
- Rinse with tap water.
- Final rinse with deionized water.
- Place pump and reel in a clean plastic bag and keep tubing or hose contained in clean plastic or galvanized tub between uses.

#### 3.6.2 Purge And Sample



Grundfos Redi-Flo2® pumps are extensively decontaminated and tested at the FEC to prevent contamination from being transmitted between sites. The relevant sections of LSASDPROC-206, *Field Equipment Cleaning and Decontamination at the FEC*, should be implemented in the field where a high risk of cross-contamination exists, such as where NAPL or high-concentration contaminants occur. In most cases, the abbreviated cleaning procedure described below will suffice, provided that sampling proceeds from least to most contaminated areas.

- Disconnect and discard the previously used sample tubing from the pump. Remove the check valve and tubing adapters and clean separately (See Section 3.6.3 for check valve). Wash the pump exterior with detergent and water.
- Prepare and fill three containers with decontamination solutions, consisting of Container #1, a tap water/detergent washing solution. Luminox® is commonly used. An additional pre-wash container of Liquinox® may be used; Container #2, a tap water rinsing solution; and Container #3, a deionized or organic-free water final rinsing solution. Choice of detergent and final rinsing solution for all steps in this procedure is dependent upon project objectives (analytes and compounds of interest). The containers should be large enough to hold the pump and one to two liters of solution. An array of 2' long 2" PVC pipes with bottom caps is a common arrangement. The solutions should be changed at least daily.
- Place the pump in Container #1. Turn the pump on and circulate the detergent and water solution through the pump and then turn the pump off.
- Place the pump in Container #2. Turn the pump on and circulate the tap water through the pump and then turn the pump off.
- Place the pump in Container #3. Turn the pump on and circulate deionized or organic-free water through the pump and then turn the pump off.
- Disconnect power and remove pump from Container #3. Rinse exterior and interior of pump with fresh deionized or organic-free water.
- Decontaminate the power lead by washing with detergent and water, followed by tap water and deionized water rinses. This step may be performed before washing the pump if desired.
- Reassemble check valve and tubing adapters to pump. ALWAYS use Teflon® tape to prevent galling of threads. Firm hand-tightening of fittings or light wrench torque is generally adequate.
- Place the pump and reel in a clean plastic bag.

### 3.6.3 Redi-Flo2® Ball Check Valve

- Remove the ball check valve from the pump head. Check for wear and/or corrosion, and replace as needed. During decontamination check for free-flow in forward direction and blocking of flow in reverse direction.
- Using a brush, scrub all components with detergent and tap water.

- Rinse with deionized water.
- Rethread the ball check valve to the Redi-Flo2<sup>®</sup> pump head.

### **3.7 Mega-Monsoon<sup>®</sup> and GeoSub<sup>®</sup> Electric Submersible Pump**

As these pumps have lower velocities in the turbine section and are easier to disassemble in the field than Grundfos pumps, the outer pump housing should be removed to expose the impeller for cleaning prior to use and between each use when used as a sampling pump for trace contaminant sampling.

- Remove check valves and adapter fittings and clean separately.
- Remove the outer motor housing by holding the top of the pump head and unscrewing the outer housing from its O-ring sealed seat.
- Clean all pump components per the provisions of section 3.4. Use a small bottle brush for the pump head passages
- Wet the O-ring(s) on the pump head with organic-free water. Reassemble the outer pump housing to the pump head.
- Clean cable and reel per Section 3.4.
- Conduct final rinse of pump with organic-free water over pump and through pump turbine.

### **3.8 Bladder Pumps**

Bladder pumps are presumed to be intended for use as low flow purge-and-sample pumps. The Geotech<sup>®</sup> bladder pump and Geoprobe Systems<sup>®</sup> mechanical bladder pump can be cleaned similarly.

- Discard any tubing returned with the pump.
- Completely disassemble the pump, being careful to note the initial position of and retain any springs and loose ball checks.
- Discard pump bladder.
- Clean all parts as per the standard cleaning procedure in Section 3.4.
- Install a new Teflon<sup>®</sup> bladder and reassemble pump.

### **3.9 Downhole Drilling Equipment**

While LSASD does not currently operate drilling equipment, LSASD personnel do oversee and specify drilling operations. The following procedures are to be used for drilling activities involving the collection of soil samples for trace organic and inorganic constituent analyses and for the construction of monitoring wells to be used for the collection of groundwater samples for trace organic and inorganic constituent analyses.

#### **3.9.1 Introduction**

Cleaning and decontamination of all equipment should occur at a designated area (decontamination pad) on the site. The decontamination pad should meet the specifications of Section 3.2 of this procedure.

Tap water brought on the site for drilling and cleaning purposes should be contained in a pre-cleaned tank.

A steam cleaner and/or high pressure hot water washer capable of generating a pressure of at least 2500 PSI and producing hot water and/or steam, with a detergent compartment, should be obtained.

### **3.9.2 Preliminary Cleaning and Inspection**

Drilling equipment should be clean of any contaminants that may have been transported from off-site to minimize the potential for cross-contamination. The drilling equipment should not serve as a source of contaminants. Associated drilling and decontamination equipment, well construction materials, and equipment handling procedures should meet these minimum specified criteria:

- All downhole augering, drilling, and sampling equipment should be sandblasted before use if painted, and/or there is a buildup of rust, hard or caked matter, etc., that cannot be removed by steam cleaning (detergent and high pressure hot water), or wire brushing. Sandblasting should be performed prior to arrival on site, or well away from the decontamination pad and areas to be sampled.
- Any portion of the drilling equipment that is over the borehole (kelly bar or mast, backhoe buckets, drilling platform, hoist or chain pulldowns, spindles, cathead, etc.) should be steam cleaned (detergent and high pressure hot water) and wire brushed (as needed) to remove all rust, soil, and other material which may have come from other sites before being brought on site.
- Printing and/or writing on well casing, tremie tubing, etc., should be removed before use. Emery cloth or sand paper can be used to remove the printing and/or writing. Most well material suppliers can provide materials without the printing and/or writing if specified when ordered. Items that cannot be cleaned are not acceptable and should be discarded.
- Equipment associated with the drilling and sampling activities should be inspected to insure that all oils, greases, hydraulic fluids, etc., have been removed, and all seals and gaskets are intact with no fluid leaks.

### **3.9.3 Drill Rig Field Cleaning Procedure**

Any portion of the drill rig, backhoe, etc., that is over the borehole (kelly bar or mast, backhoe buckets, drilling platform, hoist or chain pulldowns, spindles, cathead, etc.) should be steam cleaned (detergent and high pressure hot water) between boreholes.

### **3.9.4 Field Decontamination Procedure for Drilling Equipment**

The following is the standard procedure for field cleaning augers, drill stems, rods, tools, and associated equipment. This procedure does not apply to well casings, well screens, or split-spoon samplers used to obtain samples for chemical analyses, which should be decontaminated as outlined in Section 3.4 of this procedure.

- Wash with tap water and detergent, using a brush if necessary, to remove particulate matter and surface films. Steam cleaning (high pressure hot water with detergent) may be necessary to remove matter that is difficult to remove with the brush. Drilling equipment that is steam cleaned should be placed on racks or saw horses at least two feet above the floor of the decontamination pad. Hollow-stem augers, drill rods, etc., that are hollow or have holes that transmit water or drilling fluids, should be cleaned on the inside with vigorous brushing.
- Rinse thoroughly with tap water.
- Remove from the decontamination pad and cover with clean, unused plastic if not used immediately. If stored overnight, the plastic should be secured to ensure that it stays in place.

### **3.9.5 Field Decontamination Procedure for Direct Push Technology (DPT) Equipment**

- Certain specific procedures for the decontamination of DPT tools are described in the various sampling procedures, but the following general guidelines apply:
- Prior to return to the Field Equipment Center, all threaded tool joints should be broken apart and the equipment cleaned per the provisions of *Section 2.5, Sample Collection Equipment Contaminated with Environmental Media* of this procedure.
- Equipment that contacts the sample media and is cleaned in the field for reuse should be cleaned per the provisions of *Section 3.4, Sampling Equipment used for the Collection of Trace Organic and Inorganic Compounds* of this procedure. This would include piston sampler points and shoes, screen point sampler screens and sheaths, and the drive rods when used for groundwater sampling.
- Equipment that does not directly contact the sample media and is cleaned in the field for reuse can generally be cleaned per the provisions of *Section 3.7.4, Field Decontamination Procedure for Drilling Equipment* of this procedure.
- Stainless steel SP15/16 well screens require special care as the narrow slots are difficult to clean under even controlled circumstances and galvanic corrosion can release chrome from the screen surface. As soon as possible after retrieval, the screen slots should be sprayed from the outside to break loose as much material as possible before it can dry in place. To prevent galvanic corrosion, the screens must be segregated from the sampler sheaths, drive rods, and other carbon steel during return transport from the field.

### **3.10 Rental Pumps**

Completing a groundwater sampling project may require the use of rental pumps. Rental pumps are acceptable where they are of suitable stainless steel and Teflon<sup>®</sup> construction. These pumps should be cleaned prior to use using the procedures specified herein and a rinse-blank collected prior to use.

### **4 References**

LSASD Operating Procedure for Management of Investigation Derived Waste, LSASDPROC-202, Most Recent Version

LSASD Operating Procedure for Equipment Cleaning and Decontamination at the FEC, LSASDPROC-206, Most Recent Version

US EPA. Safety, Health and Environmental Management Program Procedures and Policy Manual. Region 4 LSASD, Athens, GA, Most Recent Version

## Revision History

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The top row of this table shows the most recent changes to this controlled document. For previous revision history information, archived versions of this document are maintained by the LSASD Document Control Coordinator on the LSASD local area network (LAN).

History	Effective Date
<p>LSASDPROC-205-R4, <i>Field Equipment Cleaning and Decontamination</i>, replaces SESDPROC-205-R3</p> <p><b>General:</b> Updated format, Division and Branch names and naming conventions post agency re-alignment.</p> <p>Section 3.1: Added note that PFAS sampling equipment will not be cleaned in the field.</p> <p>Clarified in Section 3.9 that LSASD does not performing drilling activities.</p>	<p>June 22, 2020</p>
<p>SESDPROC-205-R3, <i>Field Equipment Cleaning and Decontamination</i>, replaces SESDPROC-205-R2.</p> <p><b>Cover Page:</b> The author was changed to Brian Striggow. LSASD's reorganization was reflected in the authorization section by making John Deatrick the Chief of the Field Services Branch. The FQM was changed from Bobby Lewis to Hunter Johnson.</p> <p><b>Revision History:</b> Changes were made to reflect the current practice of only including the most recent changes in the revision history.</p> <p><b>General:</b> Corrected any typographical, grammatical and/or editorial errors.</p> <p><b>Section 1.4:</b> Differentiate between Liquinox® and Luminox® detergents.</p> <p><b>Section 3.4:</b> Restore solvent rinse as alternative cleaning method.</p> <p><b>Section 3.7:</b> Added section on cleaning of 12 Volt electric submersible pumps.</p> <p><b>Section 3.8:</b> Added section on cleaning of bladder pumps.</p> <p><b>Section 3.9:</b> Added language on cleaning and transport of SP15/16 screens</p> <p><b>Section 3.10:</b> Added section on cleaning of rental pumps</p>	<p>December 18, 2015</p>
<p>SESDPROC-205-R2, <i>Field Equipment Cleaning and Decontamination</i>, replaces SESDPROC-205-R1.</p>	<p>December 20, 2011</p>
<p>SESDPROC-205-R1, <i>Field Equipment Cleaning and Decontamination</i>, replaces SESDPROC-205-R0.</p>	<p>November 1, 2007</p>

SESDFPROC-205-R0, <i>Field Equipment Cleaning and Decontamination</i> , Original Issue	February 05, 2007
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## Symrise Inc.

Quality Assurance Project Plan  
209 SCM Road  
Brunswick, Glynn County, Georgia  
EPD ID: GAD980847339  
December 2021



Quality Assurance Project Plan  
Colonels Island Site  
Groundwater Monitoring  
Brunswick, Georgia

Prepared by: NewFields Atlanta, LLC  
Two Midtown Plaza  
1349 West Peachtree Street – Suite 1950  
Atlanta, Georgia 30309




Michael Fiori  
Project Manager  
NewFields Atlanta, LLC

11/16/2021  
Date



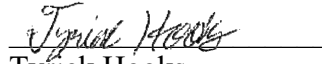
Charlene T. Rivard  
Data Quality Assurance/Quality Control Manager  
NewFields Atlanta, LLC

11/16/2021  
Date



Patrick Gagen  
Project Manager  
Advanced Environmental  
Management, Inc.

11-16-21  
Date



Tyriek Hooks  
Project Manager  
Pace Analytical

11/16/21  
Date

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### **List of Acronyms**

AEM	Advanced Environmental Management
CLP	Contract Laboratory Program
DO	Dissolved Oxygen
DQI	Data Quality Indicator
DQO	Data Quality Objectives
EPA	United States Environmental Protection Agency
EPD	Environmental Protection Division
LCS	Laboratory Control Sample
LD	Laboratory Duplicate
LSASD	Laboratory Services and Applied Science Division
MCL	Maximum Contaminant Levels
MS/MSD	Matrix Spike/Matrix Spike Duplicate
ORP	Oxygen Reduction Potential

PDI	Photoionization Detectors
PE	Performance Evaluation
QA	Quality Assurance
QAM	Quality Assurance Manual
QAPP	Quality Assurance Project Plan
QC	Quality Control
%R	Percent Recovery
RPD	Relative Percent Difference
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedure
SOW	Statement of Work
SW-846	EPA Test Methods for Evaluating Solid Waste Physical/Chemical Methods
TAL	Target Analyte List
ug/L	microgram per liter
VOC	Volatile Organic Compounds

## **1.0 INTRODUCTION**

NewFields Atlanta, LLC (NewFields) and Pace Analytical (Pace), commits itself to following Quality Assurance/Quality Control (QA/QC) management practices presented in this project Quality Assurance Project Plan (QAPP) to ensure the validity of data produced through all field activities. It is imperative that all analytical data be of verifiable quality such that they may be accurate and defensible, and usable for their intended purpose.

This QAPP is intended to provide a detailed discussion of the standard operating procedures (SOPs) for NewFields and Pace personnel during all groundwater monitoring events at the Colonels Island Site (the Site) in Brunswick, Glynn County, Georgia. Specific SOPs are established through the United States Environmental Protection Agency (EPA) Region IV Laboratory Services and Applied Science Division (LSASD) procedures and narrative descriptions of field methods and techniques associated with the collecting, handling, shipping, documenting, analyzing, and reporting environmental media samples. Although this document is comprehensive for typical field operations, modification to existing SOPs or development of SOPs may be needed to accomplish the specific task. In these instances, the nonstandard procedures will be discussed with Georgia Environmental Protection Division (EPD) representatives prior to implementation.

In addition to discussions of field SOPs, this QAPP also outlines the procedures that will be followed to document the validity of analytical data, maintain field instruments, and apprise the regulatory bodies of ongoing quality assurance issues.

## **2.0 PROJECT DESCRIPTION**

This document describes the mechanisms and activities that will be used to monitor progress towards achieving the objectives of a groundwater monitoring program. This QAPP provides a framework for the groundwater monitoring activities anticipated at the Site. This framework is not a detailed scope of work but provides an outline of the scope of work which was prepared and sent to prospective contractors for bidding purposes.

The methods that will be used to accomplish the tasks in the scope of work are described in the Sampling and Analysis Plan (SAP). The general scope of work to be conducted at the Site includes collection of groundwater samples on the Site which will be used to develop a dataset so that data trends can be evaluated, and any necessary courses of action can be determined.

Groundwater samples collected from the site will be analyzed for volatile organic compounds (VOCs) listed in the Contract Laboratory Program (CLP) Target Analyte List (TAL) and will be analyzed using EPA Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW-846) Method 8260D.

### **2.1 QA Objectives and Strategy**

The overall QA objective is to develop and implement procedures for field sampling, chain-of-custody, laboratory analysis, and reporting that will provide results that address the data quality objectives and produce data that are legally defensible. Specific procedures for sampling, chain-of-custody, laboratory instrument calibration, laboratory analysis, reporting of data, internal quality control, audits, preventive maintenance of field equipment, and corrective action are described in this QAPP. The purpose of this QAPP is to describe the project objectives and organization, functional activities, and quality assurance and quality control protocols that will be used to achieve the desired Data Quality Objectives (DQOs).

The general objective for the groundwater sampling and analysis is to develop a dataset that will be used to evaluate data trends and determine if a course of action is needed. Groundwater samples should meet the EPA Maximum Contaminant Levels (MCLs) listed in Table 2-1.

<b>Analyte</b>	<b>MCL (ug/L)</b>	<b>Analyte</b>	<b>MCL (ug/L)</b>
Vinyl chloride	2	1,1,2-Trichloroethane	5
1,1-Dichloroethene	7	Tetrachloroethylene	5
Methylene chloride	5	Dibromochloromethane	80
trans-1,2-Dichloroethylene	100	1,2-Dibromoethane	0.05
cis-1,2-Dichloroethylene	70	Chlorobenzene	100
Chloroform	80	Ethylbenzene	700
1,1,1-Trichloroethane	200	o-Xylene	10,000
Carbon tetrachloride	5	m & p-Xylenes	10,000
Benzene	5	Styrene	100
1,2-Dichloroethane	5	Bromoform	80
Trichloroethylene	5	1,2-Dichlorobenzene	600
1,2-Dichloropropane	5	1,4-Dichlorobenzene	75
Bromodichloromethane	80	1,2-Dibromo-3-chloropropane	0.2
Toluene	1000	1,2,4-Trichlorobenzene	70

## 2.2 Sampling Network Design and Rationale

The groundwater monitoring well location for the site are shown in Figure 1. At the present time, groundwater monitoring will be conducted once a year in even number years and twice annually in odd numbered years, typically in the spring and fall. Some accommodations will be made to coordinate sampling with the operating facility's production schedule. During the groundwater sampling events that will take place in March, June, September, and December of each year, a minimum of 30 wells will be sampled. A minimum of 30 sample locations will provide enough data to develop the data trends required by the project.

## 2.3 Quality Objectives and Criteria for Measurement Data

The DQOs presented were based on the seven-step process described in the EPA QA/G-4 (February 2006) and EPA QA/G-9R (February 2006) documents.

**Step 1: State the Problem** – a description of the problem(s) and specifications of available resources and relevant deadlines for the study.

- *Identify the members of the planning team – The members of the planning team will include Mike Fiori and Charlene Rivard of NewFields, and Nancy Mick of Blue Jay Environmental. A complete organizational chart can be found in Figure 2 of this document.*

- *Identify the primary decision makers – The primary decision makers as to what wells to be sampled are Mike Fiori of NewFields and Nancy Mick of Blue Jay Environmental.*
- *Develop a concise description of the problem – The problem is as follows: There is no concise database that shows concentration trends on the Site.*
- *Specify available resources and relevant deadlines for the study – NewFields will provide the resources needed to meet the stated objectives. NewFields is providing personnel and subcontractors for completion of the project. At the present time, groundwater monitoring will be conducted once a year in even number years and twice annually in odd numbered years, typically in the spring and fall. Some accommodations will be made to coordinate sampling with the operating facility’s production schedule.*

**Step 2: Identify the Decision** – *a statement of the decision that will use environmental data and the actions that could result from this decision.*

- *Identify the principal study decision – Are the concentrations in the groundwater less than the EPA MCLs? Pace Analytical in Huntersville, North Carolina has been selected to perform the sample analysis. The laboratory will provide definitive data packages (Contract Laboratory Program Level III equivalent).*
- *Define alternative actions that could result from resolution of the principal study question – Groundwater monitoring could expand to include more than 30 wells on the Site.*
- *Combine the principal study question and the alternative actions into a decision statement.*

**Step 3: Identify Inputs to the Decision** – *a list of environmental variables or characteristics that will be measured and other information needed to resolve the decision statement.*

- *To resolve the decision statement, the planning team needs to obtain measurements of the concentrations of the COCs listed in Table 2-1.*
- *Determine the sources for each item of the information identified – Review data from past investigations, if any. The current groundwater samples will be collected in accordance with the Region 4 Laboratory Services and Applied Science Division (LSASD) and will be tested using SW-846 Method 8260D.*
- *Identify the information that is needed to establish the action level – The action levels will be the EPA MCLs found in Table 2-1.*
- *Confirm that appropriate measurement methods exist to provide the necessary data – The groundwater will be tested using SW-846 Method 8260D. The detection limits are adequate to achieve the EPA MCLs.*



**Step 4: Define the Boundaries of the Study** – a detailed description of the spatial and temporal boundaries of the problem, characteristics that define the populations of interest, and any practical considerations of interest.

- Specify the characteristics that define the population of interest – Benzene, tetrachloroethylene, trichloroethylene, dichloroethene, and vinyl chloride define the population of interest.
- Groundwater samples will be collected from a minimum of 30 wells shown in Figure 1 of this QAPP.
- Define the geographic area to which the decision statement applies – Decisions will apply to the groundwater around Area 6/12 and Area 5 at the Colonels Island Site in Brunswick, Georgia, as follows.
- Define the temporal boundary of the decision statement – Determine when to collect the data – At the present time, groundwater monitoring will be conducted once a year in even number years and twice annually in odd numbered years, typically in the spring and fall. The groundwater samples will be analyzed for TAL VOCs by SW-846 Method 8260D. The sampling activities and field operations to be conducted by the contractor will be specified in the SAP.
- Define the scale of decision making – The scale will involve all of the groundwater analytical results from the upcoming monitoring events and all previous groundwater analytical results from past investigations.
- Identify practical constraints on data collection – The most important practical consideration that could interfere with the study is the ability to collect sufficient samples to meet the stated objectives.

**Step 5: Develop a Decision Rule** – to define the parameter of interest, specify the action level and integrate previous DQO outputs into a single statement that describes a logical basis for choosing among alternative actions.

- Specify the statistical parameter that characterizes the population of interest.
- The laboratory results from the sampling events will characterize the population of interest, along with previous results.
- Specify the action level for the study – The groundwater samples are less than the EPA MCLs.
- Develop a decision rule
- The data from each monitoring well will be compared to the EPA MCLs listed in Table 2-1.

The comparison of the groundwater samples to the EPA MCLs will be ongoing as monitoring events continue.

**Step 6: Specify Tolerable Limits on Decision Errors** – the decision maker’s tolerable decision error rates based on a consideration of the consequences of making a decision error.

<b>DQO</b>	<b>Possible Decision Error</b>	<b>Decision Error Control Measure</b>
<i>Determine the possible range of the parameters of interest.</i>	<i>The project COCs vary from non-detect to 38,000 ug/L throughout the site.</i>	<i>The laboratory will be aware of concentration ranges and prepared to handle the samples appropriately.</i>
<i>Define decision errors and establish the true state of nature for each decision error.</i>	<ol style="list-style-type: none"> <li data-bbox="630 762 987 825">1. <i>The laboratory results are erroneous.</i></li> <li data-bbox="630 888 906 951">2. <i>The samples are not representative.</i></li> </ol>	<ol style="list-style-type: none"> <li data-bbox="1052 762 1409 867">1. <i>Verify laboratory results: Field duplicates will be collected at a rate of 10%.</i></li> <li data-bbox="1052 888 1442 1182">2. <i>At the present time, groundwater monitoring will be conducted once a year in even number years and twice annually in odd numbered years, typically in the spring and fall, and will be analyzed by SW-846 Method 8260D.</i></li> </ol>
<i>Specify and evaluate the potential consequences of each decision error.</i>	<i>The groundwater sample results are not representative of conditions at the Site.</i>	<i>Implement measured described above.</i>
<i>Specify the range of possible values of the parameters of interest where the consequences of decision errors are relatively minor (gray region).</i>	<i>Laboratory results are less than the EPA MCLs.</i>	<i>None</i>
<i>Assign probability values to points above and below the action level that reflect the tolerable probability for the occurrence of decision errors</i>	<i>It is very unlikely that analytical detection limits or typical method residue level interferences will affect the decision-making process at this site. The concentrations of interest are sufficiently high to reduce the probability of these errors.</i>	<i>None</i>

### ***Step 7: Optimize the Plan***

- *Review the DQO outputs and existing environmental data*
- *The QA objectives of this project are to assess and document the precision, accuracy, representativeness, completeness, and comparability of all sampling and analyses performed. Criteria are established herein to assure suitability for the intended use of data to be obtained during the groundwater monitoring events, and to meet EPD-established goals. Definitive data (CLP Level III equivalent) DQOs have been chosen for this project. They provide laboratory analysis using standard EPA methodology and require documentation to assess data quality. Definitive data require QC forms to review data quality, but raw data are not submitted for full validation. This level applies to sites with the objective of site characterization, environmental monitoring, engineering purposes, risk assessment, and/or confirmation of field-produced data.*
- *Groundwater samples will be collected and analyzed to meet the objectives of the Site monitoring events. Field QA/QC samples will be collected for all sample types according to the proportions described in Table 10-1 of this QAPP.*

### **3.0 PROJECT ORGANIZATION AND RESPONSIBILITIES**

NewFields has been retained by Blue Jay Environmental to implement the monitoring program and is responsible for evaluating the data generated during the sampling events to assess if the EPA MCLs have been achieved or if any action is necessary.

#### **Oversight**

Project oversight is the responsibility of the EPD. Mr. John Sayer of the Department of Natural Resources will act as project contact.

#### **Management Structure**

Under contract, NewFields is designing and performing all tasks as outlined in the CAP. NewFields will delegate specific technical tasks to specialized firms as follows:

- Off Site Laboratory Analyses: Pace Analytical (Pace),
- Groundwater Sample Collection Support: Advanced Environmental Management (AEM).

NewFields' s Project Manager is Mr. Mike Fiori, and the Data Quality Manager is Mrs. Charlene Rivard.

AEM's Project Manager is Patrick Gagen.

The Pace Project Manager is Mr. Tyriek Hooks, and the Pace QA Manager is Mr. Ross Simmons.

#### 4.0 PROJECT QA OBJECTIVES

The QA objectives of this project are to assess and document the precision, accuracy, representativeness, completeness, and comparability of all sampling and analyses performed. Criteria are established herein to assure suitability for the intended use of data to be obtained during the monitoring events, and to meet EPD-established goals. The following discusses project-specific levels of effort for QA and data quality criteria.

#### 4.1 Field Measurements

QA objectives for parameters to be measured by AEM in the field are presented in Table 4-1. These measurements are to be collected for groundwater monitoring.

Measurement Parameter	Reference	Matrix	Precision (%)	Accuracy (%)	Completeness (%)
Dissolved Oxygen (DO)	SESDPROC-106-R4	Groundwater	± 10	90-110	90
Oxygen Reduction Potential (ORP)	SESDPROC-113-R2	Groundwater	± 10	90-110	90
pH	LSASDPROC-100-R5	Groundwater	± 10	90-110	90
Temperature	SESDPROC-102-R5	Groundwater	± 10	90-110	90
Specific Conductance	LSASDPROC-101-R7	Groundwater	± 10	90-110	90
Turbidity	SESDPROC-103-R4	Groundwater	± 10	90-110	90

All SOPs for field measurement equipment can be found in Appendix B of the SAP.

#### 4.2 Sampling and Analysis for Contamination Levels

Project QA objectives for laboratory analytical methods are presented in Table 4-2. The QA criteria presented in Table 4-2 apply to field duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, and surrogate spike compounds in all field samples.

Measurement Parameter	Matrix	Reference	Precision (%)	Accuracy % Recovery	Completeness (%)
TAL VOCs	Groundwater	Pace SOPs (SW846 8260D)	± 20	70-130	90

Pace's SOPs are presented in Appendix A of this QAPP.

Table 4-3 provides QA criteria to be applied to EPA SW-846 analyses, where appropriate. These precision and accuracy criteria apply to all MS/MSD, surrogate spike, and duplicate analyses performed by the laboratory in accordance with the specified methods. These criteria were excerpted directly from the most recent SW-846 Statement of Work (SOW) for VOCs and the EPA precision and accuracy statements for the methods used. Deviations from these criteria will be assessed and data will be qualified independent from the laboratory on the basis of guidance provided in the EPA CLP *National Functional Guidelines for Organic Superfund Methods Data Review*, (November 2020).

**Table 4-3**  
**Data Quality Objectives**  
**Matrix Spikes/Matrix Spike Duplicates/Surrogate Spikes**

Fraction	Compound	Groundwater Precision (RPD)	Groundwater Accuracy Matrix Spikes (% Recovery)*	Groundwater Accuracy Surrogates (% Recovery)*
VOCs SW-846 8260D	1,1-Dichloroethene	20%	61 – 45%	60 - 125%
	Trichloroethylene	20%	71 – 120%	80 - 120%
	Benzene	20%	76 – 127%	70 – 125%
	Toluene	20%	76 – 125%	80 - 120%
	Chlorobenzene	20%	75 – 130%	80 - 120%

**Notes:**

\* Individual laboratories may vary slightly

### 4.3 Data Quality Indicators

Quality criteria are outlined here to assure data obtained during projects are suitable for their intended use, and to meet goals established by the EPA document, *DQO for Remedial Response Activities Development Process* (March 1987).

Data Quality Indicators (DQIs) are qualitative and quantitative statements that specify the quantity of the data required to support decisions made during the removal and investigation activities and are based on the end uses of the data being collected. As such, different data uses may require different levels of data quality. Four analytical levels will be used which address various data uses and the QA/QC effort and methods required to achieve the desired level of quality. These levels are:

- **Screening** (Level 1 equivalent): This provides the lowest data quality but the most rapid results. It is often used for health and safety monitoring at the site, or initial site characterization to locate areas for subsequent and more accurate analysis.

Data collected using screening data include those generated onsite through the use of photoionization detectors (PIDs), flame ionized detectors, and other real-time monitoring equipment at the site.

- **Field Analysis** (Level 2 equivalent): The objective of the field analysis data is to provide real-time results for ongoing activities or initial analytical data which will ultimately be confirmed in an analytical laboratory. The analytical parameters and qualitative data available in field analysis can be similar to those available with definitive data or definitive data with raw data. However, due to the use of portable or transportable instruments, quantitative results may not be as accurate or precise.

Field analysis data will be used for the physical surveys.

- **Laboratory Analysis** (Level 3 equivalent): Definitive data (former CLP Level III) provides laboratory analysis using standard EPA methodology and require documentation to assess data quality. Definitive data require QC forms to review data quality, but raw data are not submitted for full validation. This level applies to sites with the objective of site characterization, environmental monitoring, engineering purposes, risk assessment, and/or confirmation of field-produced data.
- **Laboratory Analysis** (Level 4 equivalent): Definitive data with raw data (former CLP Level IV) provides the same documentation as Definitive data; however, all raw data is included in the data package. Definitive data with raw data requires the same QC forms as Definitive data to review data quality, but the raw data are submitted for full validation. This level applies to sites with the objective of site characterization, environmental monitoring, engineering purposes, risk assessment, confirmation of field-produced data, and/or litigation.

One hundred percent of all laboratory data will be reported and validated using definitive data.

#### **4.4 Quantitative QA Indicators**

The fundamental QA objective with respect to accuracy, precision, and sensitivity of laboratory analytical data is to achieve the QC acceptance criteria of the analytical protocols. The acceptance criteria are defined by the analytical method SOPs. The Quantitation Limits required for the analyses are shown in Table 2-1. The laboratory is required to meet the EPA MCLs. The laboratory accuracy and precision objectives are presented in Table 4-2.

##### ***Precision***

Precision is the ability to reproduce a number. Precision is determined from analyses of duplicate samples. Method-specific laboratory precision control limits will be applied as described in laboratory SOPs.

##### ***Accuracy***

Accuracy is the proximity of a result to the true value. Method-specific laboratory accuracy control limits will be applied as described in the laboratory SOPs.

##### ***Completeness***

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under normal conditions. It is expected that the laboratory methods will provide data meeting QC acceptance criteria for 90 percent or more of samples tested.

#### **4.5 Qualitative QA Indicators**

##### ***Representativeness***

Representativeness expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Representativeness is a qualitative parameter that is dependent on the proper design of the sampling program and the use of proper laboratory



protocols. The sampling program described in the CAP was designed to provide data that are representative of site conditions. During the development of this program, consideration was given to the site history, existing analytical data, physical setting, and other constraints.

Representativeness will be satisfied by ensuring that samples are collected as described, the sampling techniques presented in the SAP are used, analytical procedures presented in this QAPP are followed, and holding times of the samples are not exceeded in the laboratory. Representativeness will, in part, be assessed by the analysis of field-duplicate samples.

### ***Comparability***

Comparability expresses the confidence with which one data set can be compared with another. The extent to which existing and planned analytical data will be comparable depends on the similarity of sampling and analytical methods. The procedures used to obtain the planned analytical data, as documented in the QAPP and SAP, are expected to provide data that are comparable to the existing data.

## 5.0 SAMPLING PROCEDURES

The general sampling procedures that NewFields/AEM will follow are described in the SAP and LSASD procedures.

### 5.1 Sample Preservation

Some of the samples to be analyzed must be preserved to maintain their integrity. Each sample preserved with chemicals will be clearly identified by indicating on the label that it is preserved. Table 5-1 summarizes the requirements for preservation, holding times, and sample volumes and containers.

Pre-preserved, pre-cleaned bottles will be provided by the laboratory or appropriate bottle vendor. Extra preservatives will be obtained from the laboratory or the bottle supplier in case additional pH adjustments are needed after sample collection.

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**Table 5-1  
Preservation, Holding Time, and Container Requirements**

Parameter	Media	Preservation	Container	Holding Time
Volatile Organic Compounds	Groundwater	HCl, Cool, 4° ± 2°C	3 x 40 ml VOC glass vials	14 days until preparation and analysis

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**Notes:**

Holding times begin immediately upon collection of samples. Samples are to be delivered to the lab within 48 hours of collection (maximum 24-hour delivery recommended).

After collection, samples will be handled as infrequently as possible. Extreme care will be taken to ensure that samples are not contaminated. All samples will be shipped using sample transport packaging supplied by the selected subcontract analytical laboratory. These containers are designed to ensure maximum safety of the samples during transportation.

Each individual laboratory analysis must be performed within a specified holding period from the time of sample collection. When practical at the end of each day, samples collected for the lab will hand delivered or be shipped by overnight carrier, to ensure that holding times are met.

## 5.2 Sample Designation

All sample designations are discussed in Section 3.0 of the SAP.

## 5.3 Auxiliary Data

All auxiliary data relative to a particular sampling location will be collected as close to the sample collection time as possible. Auxiliary data collection will be in accordance with the LSASD.

### **Auxiliary Data Includes:**

- Field measurements such as DO, pH, turbidity, specific conductance, etc., when applicable.
- Documentation of procedures for preparation of reagents or supplies that become part of the sample;
- Documentation of procedures and forms for recording the exact location and specific considerations associated with sample acquisition;
- Documentation of specific sample preservation methods;
- Calibration of field devices;
- Collection of replicate samples; and
- Submission of field blanks, where appropriate.

The field records will include all information about weather conditions and other activities that occur during the sampling events.

## 6.0 SAMPLE CUSTODY

NewFields will follow chain-of-custody procedures set forth by the EPA in the LSASD QMP. Sample container labels will be used to identify samples and indicate analysis parameters. **CHAIN OF CUSTODY FORMS WILL NOTE THE REQUESTED TURNAROUND TIMES.** Custody seals will be used to verify sample and shipping container integrity upon receipt at the analytical laboratory. NewFields will use chain-of-custody forms for recording the transfer of sample custody. Examples of sample bottle labels, custody seals, and chain-of-custody forms are available upon request.

All sample containers are to be provided by the laboratories for this project and will be prepared as described in the LSASD QMP. All containers will be shipped to the Site from the supplier or laboratory by common carrier and will remain in the custody of AEM/NewFields personnel at the site.

All samples will be maintained in the custody of the sampling personnel. Upon transfer of custody, the chain-of-custody form will be signed by the AEM/NewFields sample technician, who will note the date and time. Because common carriers will not sign chain-of-custody forms, the chain-of-custody records will be sealed in plastic within each cooler for the laboratory. Also, the name and address of the laboratory will be placed inside a Ziploc bag and secured with tape to the inside of the cooler. A signed and dated custody seal will be placed over the lid of the sample cooler to indicate if it has been opened during shipment prior to receipt by the laboratory. All chain-of-custody forms received by the laboratory must be signed and dated by the laboratory sample custodian and returned to AEM/NewFields following receipt or as part of the data reporting package.

Laboratory custody procedures for sample receiving and log-in, storage, tracking, and holding time requirements are described in the laboratory's Quality Assurance Manual (QAM), a copy of which will be kept at the site and in the NewFields library.

## **7.0 CALIBRATION PROCEDURES AND FREQUENCY**

### **7.1 Field Instrumentation Calibration**

AEM plans to calibrate field equipment, such as the Horiba Meter, according to the procedures described in the LSASD QMP and Appendix A of the SAP. Any field equipment used for measurements not described in the LSASD QMP or for which standards are not available or applicable will be calibrated and operated in accordance with the manufacturer's recommendations.

### **7.2 Laboratory Instrument Calibration**

Calibration is required to demonstrate that the instruments used to perform quantitative chemical analysis are operating properly. Correct operation is important in meeting sensitivity requirements and in establishing detection limits. There are two types of calibration: (1) initial calibration, which is performed prior to instrument usage (i.e., standard curves); and (2) continuing calibration verification, which is performed at prescribed intervals.

Recognized procedures (e.g., EPA, ASTM, manufacturer's instructions) will be used when available. The EPA and/or SW-846 calibration procedures specified in the organic and inorganic SOWs, other EPA-approved methods, and manufacturer's instructions will be implemented when available. Written calibration procedures will include the reference materials to be used, the calibration technique, the acceptable performance limits, and the frequency.

The calibration procedures and frequencies for the analysis of groundwater samples for the laboratory are specified in the laboratory SOPs in Appendix A.

## 8.0 ANALYTICAL PROCEDURES

Analytical data quality is assured through the use of standardized methods of analysis. All analyses will be performed in accordance with published EPA analytical methods, i.e., Title 40 Code of Federal Regulations Part 136 and/or SW-846. Table 8-1 outlines the analytical procedures, which will be employed during the monitoring events along with the applicable media.

Field analytical procedures were outlined in Table 4-1.

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**Table 8-1**  
**Analytical Methods and Applicable Media**

Media/Material	Purpose	Analytical Method
Groundwater	Groundwater Monitoring	Volatile Organic Compounds, SW-846 8260D

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## **9.0 DATA REDUCTION, VALIDATION, AND REPORTING**

Data reduction, validation, and reporting by the laboratory will meet the criteria needed by NewFields for internal data validation.

For this project, analytical reporting requirements will be definitive data. Data deliverables will be reported by the laboratory as defined in Section 4.3. For definitive data, all CLP-like data quality summary forms will be reported and validated. Definitive data (Level III equivalent) will also be specified on the chain-of custody forms.

Internal QC checks and data validation procedures are described below.

### **9.1 Field Data Package**

The field data package, including all field records and measurements obtained at the site by AEM sampling personnel, will be reviewed for completeness and accuracy by conducting the following:

- A review of field data on groundwater sampling logs for completeness. Failure in this area may invalidate the data for litigation or regulatory purposes.
- A verification that rinsate blanks were properly prepared, identified, and analyzed. Failure in this area may compromise the analytical data package and result in some data being considered qualitative or invalid.
- A check on field analyses for equipment calibration and condition. Failure in this area may invalidate the field measurements.
- A review of chain-of-custody forms for proper completion, signatures of field personnel and the laboratory sample custodian, and dates. Failure in this area may invalidate the data for litigation or regulatory purposes.

### **9.2 Analytical Data Package**

The analytical data package will be validated by the NewFields project QA officer. The validation steps will be performed by applying, where applicable, the EPA Contract Laboratory Program *National Functional Guidelines for Organic Superfund Methods Data Review*, and EPA Precision and Accuracy statements for the analytical methods employed. Definitive data packages (CLP-like Level III) will be required for any analyses performed in accordance with the EPA and/or SW-846 SOWs. Non-CLP deliverables will be required as described earlier. Strict application of the

analytical data validation guidelines may not be practical for non-CLP analyses. The analytical data package validation procedure includes, but is not limited to, review of the items outlined below:

**Data Validation Procedures:**

- Comparison of the data package to the reporting level requirements designated for the project to confirm completeness.
- Comparison of sampling, sample extraction, and analysis dates to check that samples were extracted and/or analyzed within the proper holding times. Failure in this area may render the data unusable.
- Review of analytical methods and required detection limits to verify that they agree with the QAPP and the laboratory contract. Failure in this area may render the data unusable.
- Review of field and laboratory blanks to evaluate possible contamination sources. The preparation techniques and frequencies, and the analytical results (if appropriate) will be considered.
- Evaluation of all blanks (rinsate, field blanks, reagent blanks, method blanks, and extraction blanks) to confirm freedom from contamination at the specified detection limit. All blank contaminants must be explained or the data applicable to those blanks labeled suspect and sufficient only for qualitative purposes.

**9.3 Data Qualification**

The data will be qualified by the project QA officer based upon the level of reportables and the result of evaluating the field and analytical data packages. The possible data qualifiers are outlined below:

- R/UR flag:** One or more QC parameters grossly exceed control limits; unusable data may not be used for any purpose.
- J flag:** Estimated value; one or more QC parameters were outside control limits, or the value was detected below the laboratory’s quantitation limit.
- U flag:** Undetected; the analyte was analyzed for but not detected or the analyte was found in an associated blank but at a concentration less than five times (10 times for common laboratory contaminants).
- UJ flag:** Undetected and estimated; the analyte was analyzed for but not detected; and the quantitation limit is estimated because one or more QC parameters were outside control limits.
- D flag:** Diluted result; the compound was reanalyzed at a secondary dilution factor. The “D” flag will remain on the value to alert the data user that the value from a secondary dilution was used.



As with the laboratory data validation, the qualification of data is based on specifically defined criteria. Samples are evaluated by matrix against the specific class criteria and qualified accordingly. Samples for which analytical data are unacceptable must be replaced by supplemental sampling, until data completeness goals for the sample/matrix are met.

## 10.0 FIELD AND LABORATORY QUALITY CONTROL CHECKS

### 10.1 Field Data Quality

Field samples will be obtained per the procedures outlined in Section 5 of this QAPP. Precision will be assessed by evaluating the results of duplicate samples, and accuracy will be assessed by evaluating the analyses of field blanks and laboratory matrix and surrogate spikes.

**Rinsate Blanks** — Rinsate blanks are collected by retaining rinsate from sampling equipment. The equipment is rinsed with organic and analyte-free deionized water after decontamination procedures. Rinsate collected in sample containers is analyzed for parameters used for the samples in question. One rinsate blank will be collected every week from each principal piece of sampling equipment.

The rinsate blank is analyzed along with the field samples for the constituents of interest to check for contamination imparted to the samples by the sampling equipment, container, or other exogenous sources.

**Field Blanks** — A field blank is a sample container filled with organic-free water in the field and is prepared, preserved, and stored in the same manner as the other field samples. The field blanks are analyzed along with the field samples for the constituents of interest to check for contamination imparted to the samples by the sample containers or other exogenous sources. One blank of each source water will be submitted for analysis per sampling event. If the source water is changed (i.e., charcoal canisters changed on a deionized water unit), more frequent field blanks will be collected after each change.

**Duplicates** — A duplicate is an identical sample collected from the same location (i.e., soil boring, etc.) at the same time under the same conditions. Duplicate samples are analyzed along with the original sample to obtain sampling procedure precision and inherent sample source variability. One duplicate sample will be collected for every 10 samples per matrix.

**Matrix Spike/Matrix Spike Duplicates** — These investigative samples are treated like QC samples by the laboratory. Groundwater MS/MSD and MS/laboratory duplicate (MS/LD) samples require

two extra sample volumes for VOCs. One MS/MSD sample will be collected/designated for every 20 or fewer investigative samples per sample matrix.

**Laboratory Control Samples (LCS)** — The LCS monitors the overall performance of each step during analysis, including sample preparation.

Table 10-1 summarizes the QA sample collection frequencies to be followed for the groundwater monitoring activities.

**Table 10-1**  
**QA/QC Sample Collection Schedule**

	<b>Media</b>	<b>Rinsate Blanks</b>	<b>Field Blanks</b>	<b>Duplicates</b>	<b>Matrix Spikes</b>	<b>Matrix Spike Duplicates</b>
Groundwater	SW-846 8260D (Volatiles)	1/week	1/sampling event	1/10 samples	1/20 samples	1/20 samples

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## 10.2 Laboratory Quality Control Checks

There are two types of quality assurance used by the analytical laboratories to ensure the production of analytical data of known and documented usable quality: program quality assurance and analytical method quality control.

Pace has written a Quality Assurance/Quality Control program, which provide rules and guidelines to ensure the reliability and validity of work conducted at the laboratories. Compliance with the QA/QC program is coordinated and monitored by the Laboratory's Quality Assurance Managers.

The objectives of the QA/QC Programs are as follows:

- To ensure that all procedures are documented, including any changes in administrative and/or technical procedures.
- To ensure that all analytical procedures are conducted according to sound scientific principles and that they have been validated.
- To monitor the performance of the laboratory by a systematic inspection program and to provide for corrective action as necessary.
- To collaborate with other laboratories in establishing quality levels, as appropriate.
- To ensure that all data are properly recorded and archived.

All laboratory procedures are documented in writing as SOPs, which are edited and controlled by the Laboratories QA Managers. Internal quality control procedures for the laboratory will be conducted in accordance with the SOP in a manner consistent with the appropriate analytical method. These specifications include the types of audits required (sample spikes, surrogate spikes, reference samples, controls, blanks, the specific calibration check standards, and laboratory duplicate analysis), the frequency of each audit, the compounds to be used for sample spikes and surrogate spikes, and the quality control acceptance criteria for these audits.

The following internal quality control checks will be conducted, where appropriate:

- Sample spikes or matrix spikes and matrix spike duplicates;
- Laboratory control spikes (LCS), or Laboratory Control Samples;
- Surrogates and internal standards;
- Standard reference materials;
- Blanks (instrument and method/preparation);
- Confirmation with second column for gas chromatographic analyses;
- Control limits;
- Calibration standards; and,

- 
- Sample duplicates.

The laboratory will document, in the data package provided, that both initial and ongoing instrument and analytical QC functions have been met. Any samples analyzed in nonconformance with the QC criteria will be reanalyzed by the laboratory, if it is deemed necessary, if sufficient sample volume is available, and if holding times allow for re-analysis. The Quality Control acceptance criteria and spike concentrations are specified in the analytical methods.

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## **11.0 PERFORMANCE AND SYSTEM AUDITS**

Audits may be performed before and during the work to evaluate the capability and performance of the entire system of measurement and reporting — experimental design, sampling (or data collection), analysis, and attendant QC activities.

### **11.1 Field System Audits**

The QA officer from NewFields and the project manager may make routine visits to project sites to evaluate the performance of field personnel and general field operations and progress. They will observe the performance of the field operations personnel during each kind of activity, (i.e., water-level readings and sampling rounds). A formal systems audit of field operations personnel by the project QA officer may be performed and a field audit report of the sampling team will be maintained on file by AEM.

### **11.2 Laboratory Systems Audit**

A laboratory systems audit may be conducted by NewFields. These audits test methodology and assure that systems and operational capability are maintained. They also verify that QC measures are being followed as specified in the analytical methods, laboratory written SOPs, and laboratory QAM. The Systems Audit Checklist used by the EPA forms the procedural basis for conducting these audits. The results of audits are filed at NewFields.

Laboratory-initiated audits are described in the laboratory QAM kept on reference in the NewFields library and in Appendix A of this QAPP.

### **11.3 Performance Evaluation Audits**

A performance evaluation (PE) examines a laboratory's ability to obtain an accurate and precise answer in the analysis of known check samples by a specific analytical method. Following the analytical data validation described in Section 10.0, a PE audit of the laboratory may be conducted by NewFields if the QA data provided are outside acceptance criteria control limits. These PE audits may include a review of all raw data developed by the laboratory and not reported (laboratory non-reportables) and the submission of blind spiked check samples for the analysis of the parameters in question. These check samples may be submitted disguised as field samples. In this case, the

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laboratory will not know the purpose of the samples; or the samples may be obvious (known) check samples, EPA, or NBS traceable.

PE audits also may be conducted by reviewing the laboratory's results from round-robin certification testing and/or EPA evaluation samples. An additional component of PE audits includes the review and evaluation of raw data generated from the analysis of PE samples and actual field samples that may be in question.

#### **11.4 Regulatory Audits**

It is understood that NewFields/AEM field personnel and subcontract laboratory also are subject to QA audits by the State of Georgia.



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## 12.0 PREVENTIVE MAINTENANCE

### 12.1 Field Equipment/Instruments

Records of calibration and maintenance activities for each piece of equipment are contained in logbooks assigned to the equipment. This sampling equipment is routinely serviced as described in Table 12-1.

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**Table 12-1**  
**Preventive Maintenance for Field Equipment**

<b>Horiba Meter</b>	
Each use	The Horiba Meter is zeroed and calibrated at least before and after a sampling day.
Quarterly:	The instrument is inspected quarterly even if not used
	The inspection consists of a general examination of the probe, wires, electrical system (battery check), and calibration check
	Any malfunctioning equipment is returned to the manufacturer for repair and recalibration.

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### 12.2 Laboratory Instruments

As part of their QA/QC program, routine preventive maintenance programs are conducted by Pace to minimize the occurrence of instrument and equipment failure and other system malfunctions. Routine scheduled maintenance and repair is performed or coordinated with the vendor for the repair of all instruments. All laboratory instruments are maintained in accordance with manufacturer's specifications or as appropriate for the instrument. This maintenance is carried out on a regular, scheduled basis, and is documented in the laboratories' instrument service logbooks for each of their instruments. Each laboratory unit will maintain the following:

- Instrument/equipment inventory list;
- Instrument/equipment major spare parts list or inventory;
- Appropriate external service agreement documents; and,
- Instrument-specific preventive maintenance logbook or file for each functional unit.

The test instruments will follow the preventive maintenance procedures listed in the SOPs for the analytical methods. All maintenance activities will be documented in the logbooks to provide a history of maintenance records, including the following items as a minimum:

- Name and serial number of the item or equipment;
- Details of maintenance performed; and,

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- Analyst's initials and the date maintenance was performed by the analyst or by a contracted service representative.

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## 13.0 SPECIFIC ROUTINE PROCEDURES USED TO ASSESS DATA PRECISION, ACCURACY, AND COMPLETENESS

### 13.1 Accuracy

Accuracy is the degree to which a given result agrees with the true value. Spiked sample results provide information needed to assess the accuracy of analyses. Specifically, surrogate spike and MS/MSD percent recoveries (%R) are used to assess accuracy. Every organic sample is spiked with known quantities of non-target surrogate compounds. Five percent of all samples analyzed are spiked with target chemicals for the MS/MSD. If the calculated %Rs are close to the known concentrations as defined within the limits set by each method, the reported sample concentrations are assumed to be accurate.

$$\% R = \left( \frac{SSR - SR}{SA} \right) \times 100\%$$

**where:**

SSR = spiked sample recovery

SR = sample recovery

SA = amount of spike added

### 13.2 Precision

Precision measures the reproducibility of measurements and methods and is defined for qualitative data as a group of values' variability compared with its average value. To assess the precision of the measurement systems used in this project, field duplicates will be obtained and analyzed with the samples collected.

Precision of laboratory analysis will be assessed by comparing the analytical results between MS/MSDs and laboratory duplicate (if necessary) for organic analysis. The relative percent difference (RPD) will be calculated for each pair of duplicate analysis using the following equation.

$$\% RPD = \frac{S - D}{(S + D)/2} \times 100$$

---

**where:**

S = original sample result

D = duplicate sample result

The type of duplicates used will depend on the part of the measurement system to be evaluated for precision. Field-duplicated samples analyzed by the same laboratory will yield information about sampling method precision and matrix homogeneity. Laboratory-duplicated samples give indicates sample preparation and analytical method precision.

### **13.3 Completeness**

Completeness measures the amount of valid data obtained from a measurement system compared to the total amount expected to be obtained under normal conditions. A 90% completeness figure is usually required for a particular analysis and overall project objective.

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## **14.0 CORRECTIVE ACTION**

### **14.1 Field Corrective Action**

During any investigation, field personnel are responsible for seeing that field instruments are functioning properly, and that work progresses satisfactorily. The field personnel also are responsible for ensuring performance of routine preventive maintenance and QC procedures, thereby ensuring collection of valid field data.

If a problem is detected by the field personnel, the project manager shall be notified immediately, at which time corrective action will begin. Similarly, if a problem is identified during a routine audit by the project QA officer or the regulatory QA officer, an immediate investigation will be undertaken, and corrective action deemed necessary will be taken as early as possible. Samples or analyses that do not meet QC or QA criteria may be re-sampled, reanalyzed, or the analysis reviewed by NewFields or the laboratory. The project manager is responsible for initiating investigation rework and review efforts. The field manager or the QA officer will document cases of non-compliance with criteria and are responsible for reporting to the project manager and assuring the corrective action is implemented and recorded.

### **14.2 Laboratory Corrective Action**

Corrective actions are required whenever an out-of-control event or potential out-of-control events are noted. Corrective actions are taken to rectify conditions adverse to quality, and where possible, to prevent their reoccurrence. Corrective actions should be timely, determine the root cause, and evaluate any propagation of the error or problem. The investigative action taken is somewhat dependent on the analysis and the event. Corrective action may occur prior to, during, or after the initial analysis.

The corrective action program is under the supervision of the QA Manager. Following a consultation with laboratory scientists, technicians, and team leaders, it may be necessary for the QA Manager to approve the implementation of corrective action. Some conditions during or after analysis may automatically trigger corrective action or optional procedures. These conditions may include dilution of samples, additional sample extract cleanup, and automatic reinjection/reanalysis when certain quality control criteria are not met, etc. Pace's corrective action procedures are documented in their respective SOPs. These SOPs require documentation of the corrective action and notification by the

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analyst about the issue and associated corrective procedure. Corrective actions may be necessary if any of the following occur:

- QC data are outside the warning or acceptable windows for precision and accuracy;
- Blanks contain target analytes above acceptable levels;
- Undesirable trends are detected in spike recoveries or the RPD between duplicates.
- There are unusual changes in detection limits;
- Deficiencies are detected by the QA Manager during internal or external audits or from the results of performance evaluation samples; and,
- Inquiries concerning data quality are received.

Depending on the problem, the corrective action employed may be formal or informal. On-the-spot actions are used to correct minor problems, such as recalibration, retuning, or a minor repair (e.g., replacement of a minor part) of a malfunctioning instrument or the correction of poor analytical technique being used. Corrective action procedures may be handled at the bench level by the analyst, who reviews the preparation or extraction procedure that was used for possible errors, and checks the instrument calibration, spike, and calibration mixes, and the instrument sensitivity. These occurrences are documented in the analytical run file with a corrective action form. The original of the form is kept in the analytical run file while a duplicate carbon copy is routed to the QA Manager. Similarly, routine instrument maintenance, malfunctions, and power failures are also documented in the appropriate instrument maintenance logbooks. If the problem persists or cannot be identified, the matter may be referred to the QA Manager for further investigation. Occurrence of the problem, the corrective action employed, and verification that the problem has been eliminated will be properly documented. Corrective actions specific to analytical methods are discussed in the operational-specific SOPs.

The EPD or the NewFields QA Manager may also request corrective action for any nonconformance identified by audits or data validation. The NewFields QA Manager or the EPD may request corrective action for any nonconformance identified in the data validation process. Corrective action may include the following:

- Reanalysis of samples, if holding time requirements permit;
- Resampling and analysis;
- Evaluation and amendment of sampling procedures;
- Evaluation and amendment of analytical procedures; and/or,
- Accepting data and acknowledging the level of uncertainty.

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### **14.3 Corrective Action During Data Validation and Data Assessment**

The need for corrective actions may be identified during data validation or data assessment. Potential types of corrective action may include resampling by the field team or reinjection/reanalysis of samples by the laboratory. Data validation corrective actions may include notification of the respective laboratory of incomplete or erroneous reports and a request for issuance of corrected versions. When the data assessor identifies a corrective action situation, the NewFields Project Manager will approve the implementation of corrective action, including possible resampling. The NewFields QA Manager will notify the respective laboratory of incomplete or erroneous reports and will request the issuance of corrected versions. All corrective actions will be documented. Final summary data tables will not be issued until all data have been validated and all corrections have been made.

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## **15.0 QUALITY ASSURANCE REPORTS TO MANAGEMENT**

### **15.1 Internal Reports**

The QA officer will provide status reports to the project manager. The reports address items outlined below.

- QA activities and quality of collected data;
- Results of data precision and accuracy calculations;
- Evaluation of data completeness;
- QA problems and recommended and/or implemented corrective actions and these results; and,
- QA performance and system audit findings.

### **15.2 Reports to State of Georgia**

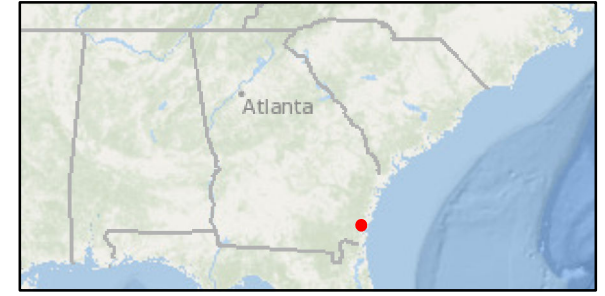
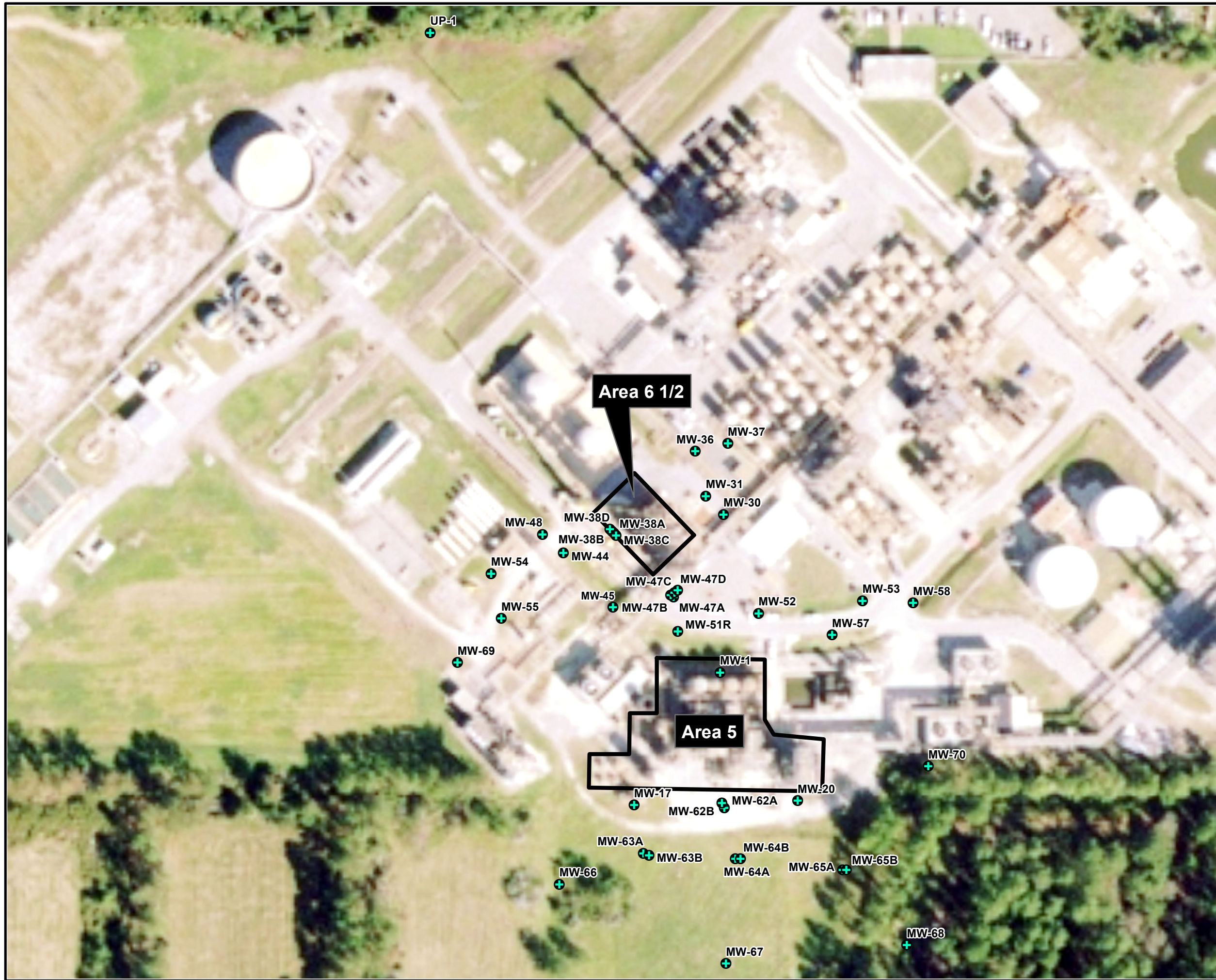
All reporting requirements for the groundwater monitoring activities are discussed in the project SAP.



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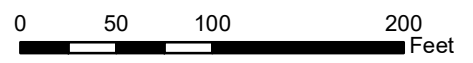
## 16.0 REFERENCES

- EPA. (1987). *Data Quality Objectives for Remedial Response Activities Development Process*. Office of Solid Waste and Emergency Response, March 1987.
- EPA. (1997). *Test Methods for the Evaluation of Solid Wastes, SW-846*, Third Edition. Office of Solid Waste and Emergency Response. Update III, May 1997.
- EPA. (2006). *Data Quality Assessment: A Reviewer's Guide EPA QA/G-9R*. Office of Environmental Information, Washington, D.C. EPA/240/B-06/002. February 2006.
- EPA. (2020). *Region IV Laboratory Services and Applied Science Division (LSASD) Quality Management Plan*. LSASDPLAN-1000-R05. March 2020.
- EPA. (2020). *Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review*. Office of Solid Waste and Environmental Response, Washington, D.C. EPA-540-R-2-01. November 2020.



**Legend**

- + Well Locations
- Site Areas



Title		<b>Groundwater Monitoring Wells</b>	
Project		<b>Colonels Island Brunswick, Georgia</b>	
		Two Midtown Plaza 1349 West Peachtree Street, Suite 1950 Atlanta, Georgia 30309 Tel: 404-347-9050 ~ Fax: 404-347-9080	
Date	12/14/2021	Rev. No.	1
MXD	GIS/CIO.mxd	Figure No.	1



Two Midtown Plaza  
 1349 West Peachtree Street, Suite 1950  
 Atlanta, Georgia 30309  
 Tel: 404-347-9050 ~ Fax: 404-347-9080  
 www.newfields.com

Quality Assurance Project Plan  
 Colonels Island  
 209 SCM Road  
 Brunswick, Georgia  
 November 2021

Figure 2  
 Organizational  
 Chart

## **Appendix A**

**Pace Laboratory Quality Assurance Manuals**

**And**

**Standard Operating Procedures**



June 14, 2021

### Stipulation of Approval for Commercial Laboratory

According to Georgia State Law (O.C.G.A. 12-2-9) Commercial Rules for Commercial Laboratory Accreditation, any person submitting data to EPD prepared by a commercial laboratory shall stipulate that the laboratory is approved (Chapter 391-3-26-.05). The following information is provided as requested.

Laboratory	<b>Pace Analytical Services, LLC</b> 9800 Kinsey Avenue, Suite 100 Huntersville, NC 28078 Phone: 704.875.9092
Accredited By:	Commonwealth of Virginia, Department of General Services: Accrediting NELAP Authority
Accreditation ID:	Laboratory ID#: 460221
Scope:	Clean Water Act - Extractable Organics, Pesticides, PCB's, Volatile Organics  RCRA/CERCLA - Extractable Organics, Pesticides, PCB's, Volatile Organics
Effective:	June 15, 2021
Expires:	June 14, 2022

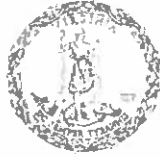
Any question regarding this stipulation of approval may be directed to Pace Analytical at 704.875.9092. Thank you for your business and please do not hesitate to contact us if we can be of further assistance.

Sincerely,

**Ross Simmons**  
Quality Assurance Manager

[O] 704.875.9092 [F] 704.875.9091  
9800 Kinsey Avenue, Suite 100, Huntersville, NC 28078

PACELABS.COM



**COMMONWEALTH of VIRGINIA**  
*Department of General Services*

*Division of Consolidated Laboratory Services*

*600 North 5th Street  
Richmond, Virginia 23219-3691  
(804) 648-4480  
FAX (804) 692-0416*

06/11/2021

Felicia Grogan  
Pace Analytical Services, LLC - Huntersville NC  
9800 Kinsey Ave, Suite 100  
Huntersville NC 28078

VELAP ID: 460221

Dear Felicia Grogan:

The Division of Consolidated Laboratory Services (DCLS) has accredited Pace Analytical Services, LLC - Huntersville NC pursuant to the provisions of 1VAC30-46 and The NELAC Institute (TNI) 2009 Standard. Certificate number 11382 and the corresponding Scope of Accreditation are enclosed. This certificate expires 06/14/2022. The certificate must be conspicuously displayed in the laboratory along with the associated Scope of Accreditation.

Please note that your laboratory is required to notify the Virginia Environmental Laboratory Accreditation Program (VELAP) in writing of any changes in key accreditation criteria within 30 calendar days of the change per 1VAC30-46-90 A. This requirement includes changes in ownership, location, key personnel, and major instrumentation.

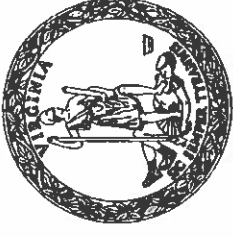
To maintain accreditation, the laboratory must continue to comply with 1VAC30-46. This includes ongoing satisfactory proficiency testing. The method checklists used by VELAP in the on-site assessment process are available upon request as a supplement to internal audits.

Please direct all correspondences and questions regarding accreditation to your laboratory's lead assessor, Ila Meyer-Fritzsche, at [ila.meyer-fritzsche@dgs.virginia.gov](mailto:ila.meyer-fritzsche@dgs.virginia.gov) or (804) 648-4480 x306.

Sincerely yours,

Cathy Westerman  
Manager, Laboratory Certification Program

Enclosures



**COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF GENERAL SERVICES  
DIVISION OF CONSOLIDATED LABORATORY SERVICES**

**Certifies that**

**VA Laboratory ID#: 460221  
Pace Analytical Services, LLC - Huntersville NC  
9800 Kinsey Ave, Suite 100  
Huntersville, NC 28078**

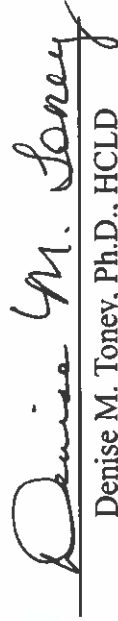
**Owner: PAS PARENT, LLC  
Operator: PACE ANALYTICAL SERVICES, LLC  
Responsible Official: FELICIA GROGAN**

Having met the requirements of 1 VAC 30-46 and  
having been found compliant with the 2009 TNI Standard approved by The NELAC Institute  
is hereby approved as an

**Accredited Environmental Laboratory**

As more fully described in the attached Scope of Accreditation

**Effective Date: June 15, 2021  
Expiration Date: June 14, 2022  
Certificate # 11382**

  
Denise M. Toney, Ph.D., HCLD  
DGS Deputy Director for Laboratories

Continued accreditation status depends on successful ongoing participation in the program.  
Certificate to be conspicuously displayed at the laboratory.  
Not valid unless accompanied by a valid Virginia Environmental Laboratory Accreditation Program (VELAP)  
Scope of Accreditation.  
Customers are urged to verify the laboratory's current accreditation status.



**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Scope of Accreditation**

VELAP Certificate No.: 11382

**Pace Analytical Services, LLC - Huntersville NC**  
 9800 Kinsey Ave, Suite 100  
 Huntersville, NC 28078

**Virginia Laboratory ID: 460221**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

**DRINKING WATER**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 504.1 REV 1.1	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA	EPA 504.1 REV 1.1	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA 524.2 REV 4.1	1,1,1-TRICHLOROETHANE	VA	EPA 524.2 REV 4.1	1,1,2-TRICHLOROETHANE	VA
EPA 524.2 REV 4.1	1,1-DICHLOROETHYLENE	VA	EPA 524.2 REV 4.1	1,2,4-TRICHLOROBENZENE	VA
EPA 524.2 REV 4.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 524.2 REV 4.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 524.2 REV 4.1	1,2-DICHLOROPROPANE	VA	EPA 524.2 REV 4.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA
EPA 524.2 REV 4.1	BENZENE	VA	EPA 524.2 REV 4.1	BROMODICHLOROMETHANE	VA
EPA 524.2 REV 4.1	BROMOFORM	VA	EPA 524.2 REV 4.1	CARBON TETRACHLORIDE	VA
EPA 524.2 REV 4.1	CHLOROBENZENE	VA	EPA 524.2 REV 4.1	CHLORODIBROMOMETHANE	VA
EPA 524.2 REV 4.1	CHLOROFORM	VA	EPA 524.2 REV 4.1	CIS-1,2-DICHLOROETHYLENE	VA
EPA 524.2 REV 4.1	ETHYLBENZENE	VA	EPA 524.2 REV 4.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 524.2 REV 4.1	STYRENE	VA	EPA 524.2 REV 4.1	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA 524.2 REV 4.1	TOLUENE	VA	EPA 524.2 REV 4.1	TOTAL TRIHALOMETHANES (TTHMS)	VA
EPA 524.2 REV 4.1	TRANS-1,2-DICHLOROETHENE	VA	EPA 524.2 REV 4.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA
EPA 524.2 REV 4.1	VINYL CHLORIDE (CHLOROETHENE)	VA	EPA 524.2 REV 4.1	XYLENE (TOTAL)	VA
EPA 552.2 REV 1	BROMOACETIC ACID	VA	EPA 552.2 REV 1	CHLOROACETIC ACID	VA
EPA 552.2 REV 1	DIBROMOACETIC ACID	VA	EPA 552.2 REV 1	DICHLOROACETIC ACID	VA
EPA 552.2 REV 1	HALOACETIC ACIDS - FIVE (HAA5)	VA	EPA 552.2 REV 1	TRICHLOROACETIC ACID (TCAA)	VA

**NON-POTABLE WATER**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 1664 B	OIL AND GREASE (AS N-HEXANE EXTRACTABLE MATERIAL (HEM))	VA	EPA 1664 B	TOTAL PETROLEUM HYDROCARBONS (TPH) (AS NONPOLAR MATERIAL, SGT-HEM)	VA
EPA 3510 C	PREP: LIQUID-LIQUID EXTRACTION	VA	EPA 3511	PREP: ORGANIC EXTRACTION AND SAMPLE PREPARATION	VA
EPA 5030 B	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	VA	EPA 608.3	4,4'-DDD	VA
EPA 608.3	4,4'-DDE	VA	EPA 608.3	4,4'-DDT	VA
EPA 608.3	ALDRIN	VA	EPA 608.3	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA
EPA 608.3	AROCLOR-1016 (PCB-1016)	VA	EPA 608.3	AROCLOR-1221 (PCB-1221)	VA
EPA 608.3	AROCLOR-1232 (PCB-1232)	VA	EPA 608.3	AROCLOR-1242 (PCB-1242)	VA
EPA 608.3	AROCLOR-1248 (PCB-1248)	VA	EPA 608.3	AROCLOR-1254 (PCB-1254)	VA
EPA 608.3	AROCLOR-1260 (PCB-1260)	VA	EPA 608.3	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA

This Scope of Accreditation must accompany the Certificate issued by Virginia DCLS with the same Certificate Number indicated above.





**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Scope of Accreditation**

VELAP Certificate No.: 11382

**Pace Analytical Services, LLC - Huntersville NC**  
 9800 Kinsey Ave, Suite 100  
 Huntersville, NC 28078

**Virginia Laboratory ID: 460221**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

**NON-POTABLE WATER**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 608.3	DELTA-BHC	VA	EPA 608.3	CHLORDANE, TOTAL	VA
EPA 608.3	ENDOSULFAN I	VA	EPA 608.3	DIELDRIN	VA
EPA 608.3	ENDOSULFAN SULFATE	VA	EPA 608.3	ENDOSULFAN II	VA
EPA 608.3	ENDRIN ALDEHYDE	VA	EPA 608.3	ENDRIN	VA
EPA 608.3	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA	EPA 608.3	ENDRIN KETONE	VA
EPA 608.3	HEPTACHLOR EPOXIDE	VA	EPA 608.3	HEPTACHLOR	VA
EPA 608.3	TOXAPHENE (CHLORINATED CAMPHENE)	VA	EPA 624.1	METHOXYCHLOR	VA
EPA 624.1	1,1,2,2-TETRACHLOROETHANE	VA	EPA 624.1	1,1,1-TRICHLOROETHANE	VA
EPA 624.1	1,1-DICHLOROETHANE	VA	EPA 624.1	1,1,2-TRICHLOROETHANE	VA
EPA 624.1	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 624.1	1,1-DICHLOROETHYLENE	VA
EPA 624.1	1,2-DICHLOROPROPANE	VA	EPA 624.1	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 624.1	1,3-DICHLOROPROPENE	VA	EPA 624.1	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA
EPA 624.1	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA	EPA 624.1	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA
EPA 624.1	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA	EPA 624.1	2-CHLOROETHYL VINYL ETHER	VA
EPA 624.1	ACROLEIN (PROPENAL)	VA	EPA 624.1	ACETONE	VA
EPA 624.1	BENZENE	VA	EPA 624.1	ACRYLONITRILE	VA
EPA 624.1	BROMOFORM	VA	EPA 624.1	BROMODICHLOROMETHANE	VA
EPA 624.1	CHLOROBENZENE	VA	EPA 624.1	CARBON TETRACHLORIDE	VA
EPA 624.1	CHLOROETHANE (ETHYL CHLORIDE)	VA	EPA 624.1	CHLORODIBROMOMETHANE	VA
EPA 624.1	CIS-1,3-DICHLOROPROPENE	VA	EPA 624.1	CHLOROFORM	VA
EPA 624.1	METHYL BROMIDE (BROMOMETHANE)	VA	EPA 624.1	ETHYLBENZENE	VA
EPA 624.1	METHYL TERT-BUTYL ETHER (MTBE)	VA	EPA 624.1	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA 624.1	TETRACHLOROETHENE (PERCHLOROETHENE)	VA	EPA 624.1	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 624.1	TRANS-1,2-DICHLOROETHENE	VA	EPA 624.1	TOLUENE	VA
EPA 624.1	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA	EPA 624.1	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	VA
EPA 624.1	VINYL CHLORIDE (CHLOROETHENE)	VA	EPA 624.1	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA 624.1 EXTENDED	N-HEXANE	VA	EPA 624.1	XYLENE (TOTAL)	VA
EPA 625.1	1,2-DIPHENYLHYDRAZINE	VA	EPA 625.1	1,2,4-TRICHLOROBENZENE	VA
			EPA 625.1	2,2'-OXYBIS(1-CHLOROPROPANE)	VA

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**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Scope of Accreditation**

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 9800 Kinsey Ave, Suite 100  
 Huntersville, NC 28078

**Virginia Laboratory ID: 460221**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

**NON-POTABLE WATER**

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 625.1	2,3,7,8-TCDD (DIOXIN) - QUALITATIVE SCREEN BY SIM	VA	EPA 625.1	2,3-DICHLOROANILINE	VA
EPA 625.1	2,4,6-TRICHLOROPHENOL	VA	EPA 625.1	2,4-DICHLOROPHENOL	VA
EPA 625.1	2,4-DIMETHYLPHENOL	VA	EPA 625.1	2,4-DINITROPHENOL	VA
EPA 625.1	2,4-DINITROTOLUENE (2,4-DNT)	VA	EPA 625.1	2,6-DINITROTOLUENE (2,6-DNT)	VA
EPA 625.1	2-CHLORONAPHTHALENE	VA	EPA 625.1	2-CHLOROPHENOL	VA
EPA 625.1	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA	EPA 625.1	2-METHYLPHENOL (O-CRESOL)	VA
EPA 625.1	2-NITROPHENOL	VA	EPA 625.1	3+4-METHYLPHENOL (M+P CRESOL)	VA
EPA 625.1	3,3'-DICHLOROBENZIDINE	VA	EPA 625.1	4-BROMOPHENYL PHENYL ETHER (BDE-3)	VA
EPA 625.1	4-CHLORO-3-METHYLPHENOL	VA	EPA 625.1	4-CHLOROPHENYL PHENYLETHER	VA
EPA 625.1	4-NITROPHENOL	VA	EPA 625.1	ACENAPHTHENE	VA
EPA 625.1	ACENAPHTHYLENE	VA	EPA 625.1	ACETOPHENONE	VA
EPA 625.1	ALPHA-TERPINEOL	VA	EPA 625.1	ANILINE	VA
EPA 625.1	ANTHRACENE	VA	EPA 625.1	BENZIDINE	VA
EPA 625.1	BENZO(A)ANTHRACENE	VA	EPA 625.1	BENZO(A)PYRENE	VA
EPA 625.1	BENZO(B)FLUORANTHENE	VA	EPA 625.1	BENZO(G,H,I)PERYLENE	VA
EPA 625.1	BENZO(K)FLUORANTHENE	VA	EPA 625.1	BENZOIC ACID	VA
EPA 625.1	BIS(2-CHLOROETHOXY)METHANE	VA	EPA 625.1	BIS(2-CHLOROETHYL) ETHER	VA
EPA 625.1	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA	EPA 625.1	BUTYL BENZYL PHTHALATE	VA
EPA 625.1	CARBAZOLE	VA	EPA 625.1	CHRYSENE	VA
EPA 625.1	DI-N-BUTYL PHTHALATE	VA	EPA 625.1	DI-N-OCTYL PHTHALATE	VA
EPA 625.1	DIBENZO(A,H) ANTHRACENE	VA	EPA 625.1	DIETHYL PHTHALATE	VA
EPA 625.1	DIMETHYL PHTHALATE	VA	EPA 625.1	FLUORANTHENE	VA
EPA 625.1	FLUORENE	VA	EPA 625.1	HEXACHLOROBENZENE	VA
EPA 625.1	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 625.1	HEXACHLOROCYCLOPENTADIENE	VA
EPA 625.1	HEXACHLOROETHANE	VA	EPA 625.1	INDENO(1,2,3-CD) PYRENE	VA
EPA 625.1	ISOPHORONE	VA	EPA 625.1	N-NITROSODI-N-PROPYLAMINE	VA
EPA 625.1	N-NITROSODIMETHYLAMINE	VA	EPA 625.1	N-NITROSODIPHENYLAMINE	VA
EPA 625.1	NAPHTHALENE	VA	EPA 625.1	NITROBENZENE	VA
EPA 625.1	PENTACHLOROPHENOL	VA	EPA 625.1	PHENANTHRENE	VA
EPA 625.1	PHENOL	VA	EPA 625.1	PYRENE	VA
EPA 625.1	PYRIDINE	VA	EPA 625.1 EXTENDED	N-DECANE	VA
EPA 625.1 EXTENDED	N-OCTADECANE	VA	EPA 8011	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA
EPA 8011	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA	EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	VA

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**Commonwealth of Virginia**  
 Department of General Services  
 Division of Consolidated Laboratory Services



**Scope of Accreditation**

VELAP Certificate No.: 11382

**Pace Analytical Services, LLC - Huntersville NC**  
 9800 Kinsey Ave, Suite 100  
 Huntersville, NC 28078

**Virginia Laboratory ID: 460221**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

**NON-POTABLE WATER**

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	VA	EPA 8015 C - EXTENDED	OIL RANGE ORGANICS	VA
EPA 8081 B	4,4'-DDD	VA	EPA 8081 B	4,4'-DDE	VA
EPA 8081 B	4,4'-DDT	VA	EPA 8081 B	ALDRIN	VA
EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA	EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	VA
EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA	EPA 8081 B	CHLORDANE, TOTAL	VA
EPA 8081 B	DELTA-BHC	VA	EPA 8081 B	DIELDRIN	VA
EPA 8081 B	ENDOSULFAN I	VA	EPA 8081 B	ENDOSULFAN II	VA
EPA 8081 B	ENDOSULFAN SULFATE	VA	EPA 8081 B	ENDRIN	VA
EPA 8081 B	ENDRIN ALDEHYDE	VA	EPA 8081 B	ENDRIN KETONE	VA
EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA	EPA 8081 B	GAMMA-CHLORDANE (BETA-CHLORDANE, TRANS-CHLORDANE)	VA
EPA 8081 B	HEPTACHLOR	VA	EPA 8081 B	HEPTACHLOR EPOXIDE	VA
EPA 8081 B	HEXACHLOROBENZENE	VA	EPA 8081 B	METHOXYCHLOR	VA
EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	VA	EPA 8081 B - EXTENDED	MIREX	VA
EPA 8082 A	AROCLOR-1016 (PCB-1016)	VA	EPA 8082 A	AROCLOR-1221 (PCB-1221)	VA
EPA 8082 A	AROCLOR-1232 (PCB-1232)	VA	EPA 8082 A	AROCLOR-1242 (PCB-1242)	VA
EPA 8082 A	AROCLOR-1248 (PCB-1248)	VA	EPA 8082 A	AROCLOR-1254 (PCB-1254)	VA
EPA 8082 A	AROCLOR-1260 (PCB-1260)	VA	EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	VA
EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	VA	EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	VA
EPA 8260 D	1,1,1-TRICHLOROETHANE	VA	EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	VA
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	VA	EPA 8260 D	1,1,2-TRICHLOROETHANE	VA
EPA 8260 D	1,1-DICHLOROETHANE	VA	EPA 8260 D	1,1-DICHLOROETHYLENE	VA
EPA 8260 D	1,1-DICHLOROPROPENE	VA	EPA 8260 D	1,2,3-TRICHLOROBENZENE	VA
EPA 8260 D	1,2,3-TRICHLOROPROPANE	VA	EPA 8260 D	1,2,3-TRIMETHYLBENZENE	VA
EPA 8260 D	1,2,4-TRICHLOROBENZENE	VA	EPA 8260 D	1,2,4-TRIMETHYLBENZENE	VA
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA	EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 8260 D	1,2-DICHLOROPROPANE	VA	EPA 8260 D	1,3,5-TRIMETHYLBENZENE	VA
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA	EPA 8260 D	1,3-DICHLOROPROPANE	VA
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA	EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA
EPA 8260 D	2,2-DICHLOROPROPANE	VA	EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA

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 Huntersville, NC 28078

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**NON-POTABLE WATER**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8260 D	2-CHLOROETHYL VINYL ETHER	VA	EPA 8260 D	2-CHLOROTOLUENE	VA
EPA 8260 D	2-HEXANONE	VA	EPA 8260 D	4-CHLOROTOLUENE	VA
EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	VA	EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA
EPA 8260 D	ACETONE	VA	EPA 8260 D	ACETONITRILE	VA
EPA 8260 D	ACROLEIN (PROPENAL)	VA	EPA 8260 D	ACRYLONITRILE	VA
EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	VA	EPA 8260 D	BENZENE	VA
EPA 8260 D	BROMOBENZENE	VA	EPA 8260 D	BROMOCHLOROMETHANE	VA
EPA 8260 D	BROMODICHLOROMETHANE	VA	EPA 8260 D	BROMOFORM	VA
EPA 8260 D	CARBON DISULFIDE	VA	EPA 8260 D	CARBON TETRACHLORIDE	VA
EPA 8260 D	CHLOROBENZENE	VA	EPA 8260 D	CHLORODIBROMOMETHANE	VA
EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	VA	EPA 8260 D	CHLOROFORM	VA
EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	VA	EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	VA
EPA 8260 D	CIS-1,3-DICHLOROPROPENE	VA	EPA 8260 D	CIS-1,4-DICHLORO-2-BUTENE	VA
EPA 8260 D	CYCLOHEXANE	VA	EPA 8260 D	DIIISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	VA
EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	VA	EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	VA
EPA 8260 D	DIETHYL ETHER	VA	EPA 8260 D	ETHANOL	VA
EPA 8260 D	ETHYL ACETATE	VA	EPA 8260 D	ETHYL METHACRYLATE	VA
EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	VA	EPA 8260 D	ETHYLBENZENE	VA
EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 8260 D	IODOMETHANE (METHYL IODIDE)	VA
EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	VA	EPA 8260 D	ISOPROPYLBENZENE	VA
EPA 8260 D	M+P-XYLENE	VA	EPA 8260 D	METHACRYLONITRILE	VA
EPA 8260 D	METHYL ACETATE	VA	EPA 8260 D	METHYL ACRYLATE	VA
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	VA	EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA 8260 D	METHYL METHACRYLATE	VA	EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA 8260 D	METHYLCYCLOHEXANE	VA	EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 8260 D	N-BUTYLBENZENE	VA	EPA 8260 D	N-PROPYLBENZENE	VA
EPA 8260 D	NAPHTHALENE	VA	EPA 8260 D	O-XYLENE	VA
EPA 8260 D	PENTACHLOROETHANE	VA	EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	VA
EPA 8260 D	SEC-BUTYLBENZENE	VA	EPA 8260 D	STYRENE	VA
EPA 8260 D	T-AMYLMETHYLETHER (TAME)	VA	EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	VA

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**Virginia Laboratory ID: 460221**  
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**NON-POTABLE WATER**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8260 D	TERT-BUTYLBENZENE	VA	EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA 8260 D	TOLUENE	VA	EPA 8260 D	TRANS-1,2-DICHLOROETHENE	VA
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	VA	EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	VA
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA	EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA 8260 D	VINYL ACETATE	VA	EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	VA
EPA 8260 D	XYLENE (TOTAL)	VA	EPA 8260 D - EXTENDED	3,3-DIMETHYL-1-BUTANOL	VA
EPA 8260 D - EXTENDED	CIS & TRANS-1,2-DICHLOROETHENE	VA	EPA 8260 D - EXTENDED	CYCLOHEXANONE	VA
EPA 8260 D - EXTENDED	N-HEXANE	VA	EPA 8260 D - EXTENDED	T-AMYL ALCOHOL (TAA)	VA
EPA 8260 D - EXTENDED	TERT-BUTYL FORMATE	VA	EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	VA
EPA 8260 D SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA	EPA 8260 D SIM	VINYL CHLORIDE (CHLOROETHENE)	VA
EPA 8270 E	1,1'-BIPHENYL (BZ-0)	VA	EPA 8270 E	1,2,4,5-TETRACHLOROENZENE	VA
EPA 8270 E	1,2,4-TRICHLOROBENZENE	VA	EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA
EPA 8270 E	1,2-DIPHENYLHYDRAZINE	VA	EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	VA
EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA	EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	VA
EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA	EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	VA
EPA 8270 E	1,4-NAPHTHOQUINONE	VA	EPA 8270 E	1,4-PHENYLENEDIAMINE	VA
EPA 8270 E	1-METHYLNAPHTHALENE	VA	EPA 8270 E	1-NAPHTHYLAMINE	VA
EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	VA	EPA 8270 E	2,4,5-TRICHLOROPHENOL	VA
EPA 8270 E	2,4,6-TRICHLOROPHENOL	VA	EPA 8270 E	2,4-DICHLOROPHENOL	VA
EPA 8270 E	2,4-DIMETHYLPHENOL	VA	EPA 8270 E	2,4-DINITROPHENOL	VA
EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	VA	EPA 8270 E	2,6-DICHLOROPHENOL	VA
EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	VA	EPA 8270 E	2-ACETYLAMINOFLUORENE	VA
EPA 8270 E	2-CHLORONAPHTHALENE	VA	EPA 8270 E	2-CHLOROPHENOL	VA
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA	EPA 8270 E	2-METHYLNAPHTHALENE	VA
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	VA	EPA 8270 E	2-NAPHTHYLAMINE	VA
EPA 8270 E	2-NITROANILINE	VA	EPA 8270 E	2-NITROPHENOL	VA
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	VA	EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	VA
EPA 8270 E	3,3'-DICHLOROBENZIDINE	VA	EPA 8270 E	3,3'-DIMETHYLBENZIDINE	VA
EPA 8270 E	3-METHYLCHOLANTHRENE	VA	EPA 8270 E	3-METHYLPHENOL (M-CRESOL)	VA
EPA 8270 E	3-NITROANILINE	VA	EPA 8270 E	4,4'-METHYLENEBIS-2-CHLOROANILINE	VA
EPA 8270 E	4-AMINOBIIPHENYL	VA			

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**NON-POTABLE WATER**

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	VA	EPA 8270 E	4-CHLORO-3-METHYLPHENOL	VA
EPA 8270 E	4-CHLOROANILINE	VA	EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	VA
EPA 8270 E	4-NITROANILINE	VA	EPA 8270 E	4-NITROPHENOL	VA
EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	VA	EPA 8270 E	5-NITRO-O-TOLUIDINE	VA
EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	VA	EPA 8270 E	A-A-DIMETHYLPHENETHYLAMINE	VA
EPA 8270 E	ACENAPHTHENE	VA	EPA 8270 E	ACENAPHTHYLENE	VA
EPA 8270 E	ACETOPHENONE	VA	EPA 8270 E	ANILINE	VA
EPA 8270 E	ANTHRACENE	VA	EPA 8270 E	ARAMITE	VA
EPA 8270 E	ATRAZINE	VA	EPA 8270 E	AZOBENZENE	VA
EPA 8270 E	BENZALDEHYDE	VA	EPA 8270 E	BENZIDINE	VA
EPA 8270 E	BENZO(A)ANTHRACENE	VA	EPA 8270 E	BENZO(A)PYRENE	VA
EPA 8270 E	BENZO(B)FLUORANTHENE	VA	EPA 8270 E	BENZO(G,H,I)PERYLENE	VA
EPA 8270 E	BENZO(K)FLUORANTHENE	VA	EPA 8270 E	BENZOIC ACID	VA
EPA 8270 E	BENZYL ALCOHOL	VA	EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	VA
EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	VA	EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (DI(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA
EPA 8270 E	BUTYL BENZYL PHTHALATE	VA	EPA 8270 E	CAPROLACTAM	VA
EPA 8270 E	CARBAZOLE	VA	EPA 8270 E	CHLOROBENZILATE	VA
EPA 8270 E	CHRYSENE	VA	EPA 8270 E	DI-N-BUTYL PHTHALATE	VA
EPA 8270 E	DI-N-OCTYL PHTHALATE	VA	EPA 8270 E	DIALLATE	VA
EPA 8270 E	DIBENZO(A,E) PYRENE	VA	EPA 8270 E	DIBENZO(A,H) ANTHRACENE	VA
EPA 8270 E	DIBENZOFURAN	VA	EPA 8270 E	DIETHYL PHTHALATE	VA
EPA 8270 E	DIMETHOATE	VA	EPA 8270 E	DIMETHYL PHTHALATE	VA
EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	VA	EPA 8270 E	DIPHENYLAMINE	VA
EPA 8270 E	DISULFOTON	VA	EPA 8270 E	ETHYL METHANESULFONATE	VA
EPA 8270 E	FAMPHUR	VA	EPA 8270 E	FLUORANTHENE	VA
EPA 8270 E	FLUORENE	VA	EPA 8270 E	HEXACHLOROBENZENE	VA
EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA	EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	VA
EPA 8270 E	HEXACHLOROETHANE	VA	EPA 8270 E	HEXACHLOROPHENE	VA
EPA 8270 E	HEXACHLOROPROPENE	VA	EPA 8270 E	INDENO(1,2,3-CD) PYRENE	VA
EPA 8270 E	ISODRIN	VA	EPA 8270 E	ISOPHORONE	VA
EPA 8270 E	ISOSAFROLE	VA	EPA 8270 E	KEPONE	VA
EPA 8270 E	METHAPYRILENE	VA	EPA 8270 E	METHYL METHANESULFONATE	VA
EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	VA	EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	VA
EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	VA	EPA 8270 E	N-NITROSODIETHYLAMINE	VA

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**NON-POTABLE WATER**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8270 E	N-NITROSODIMETHYLAMINE	VA	EPA 8270 E	N-NITROSODIPHENYLAMINE	VA
EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	VA	EPA 8270 E	N-NITROSOMORPHOLINE	VA
EPA 8270 E	N-NITROSOPIPERIDINE	VA	EPA 8270 E	N-NITROSOPYRROLIDINE	VA
EPA 8270 E	NAPHTHALENE	VA	EPA 8270 E	NITROBENZENE	VA
EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	VA	EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	VA
EPA 8270 E	PARATHION (PARATHION - ETHYL)	VA	EPA 8270 E	PENTACHLOROBENZENE	VA
EPA 8270 E	PENTACHLORONITROBENZENE	VA	EPA 8270 E	PENTACHLOROPHENOL	VA
EPA 8270 E	PHENACETIN	VA	EPA 8270 E	PHENANTHRENE	VA
EPA 8270 E	PHENOL	VA	EPA 8270 E	PHORATE	VA
EPA 8270 E	PHTHALIC ANHYDRIDE	VA	EPA 8270 E	PRONAMIDE (KERB)	VA
EPA 8270 E	PYRENE	VA	EPA 8270 E	PYRIDINE	VA
EPA 8270 E	SAFROLE	VA	EPA 8270 E	SULFOTEPP (TETRAETHYL DITHIOPYROPHOSPHATE)	VA
EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	VA	EPA 8270 E	TOLUENE DIISOCYANATE	VA
EPA 8270 E	TRIS-(2,3-DIBROMOPROPYL) PHOSPHATE (TRIS-BP)	VA	EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	VA
EPA 8270 E - EXTENDED	2,3-DICHLOROANILINE	VA	EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	VA
EPA 8270 E - EXTENDED	ALPHA-TERPINEOL	VA	EPA 8270 E - EXTENDED	BENZAL CHLORIDE	VA
EPA 8270 E - EXTENDED	DIPHENYL ETHER (DIPHENYL OXIDE)	VA	EPA 8270 E - EXTENDED	DIPHENYL KETONE (BENZOPHENONE)	VA
EPA 8270 E - EXTENDED	N-DECANE	VA	EPA 8270 E - EXTENDED	PENTACHLOROETHANE	VA
EPA 8270 E - EXTENDED	TRICLOSAN	VA	EPA 8270 E SIM	1-METHYLNAPHTHALENE	VA
EPA 8270 E SIM	2-METHYLNAPHTHALENE	VA	EPA 8270 E SIM	ACENAPHTHENE	VA
EPA 8270 E SIM	ACENAPHTHYLENE	VA	EPA 8270 E SIM	ANTHRACENE	VA
EPA 8270 E SIM	BENZO(A)ANTHRACENE	VA	EPA 8270 E SIM	BENZO(A)PYRENE	VA
EPA 8270 E SIM	BENZO(B)FLUORANTHENE	VA	EPA 8270 E SIM	BENZO(G,H,I)PERYLENE	VA
EPA 8270 E SIM	BENZO(K)FLUORANTHENE	VA	EPA 8270 E SIM	CHRYSENE	VA
EPA 8270 E SIM	DIBENZO(A,H) ANTHRACENE	VA	EPA 8270 E SIM	FLUORANTHENE	VA
EPA 8270 E SIM	FLUORENE	VA	EPA 8270 E SIM	HEXACHLOROBENZENE	VA
EPA 8270 E SIM	INDENO(1,2,3-CD) PYRENE	VA	EPA 8270 E SIM	NAPHTHALENE	VA
EPA 8270 E SIM	PENTACHLOROPHENOL	VA	EPA 8270 E SIM	PHENANTHRENE	VA
EPA 8270 E SIM	PYRENE	VA	RSK-175	ETHANE	VA
RSK-175	ETHENE (ETHYLENE)	VA	RSK-175	METHANE	VA

**SOLID AND CHEMICAL MATERIALS**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 1311 - ORGANICS ONLY	PREP: TOXICITY CHARACTERISTIC LEACHING PROCEDURE	VA	EPA 1312 - ORGANICS ONLY	PREP: SYNTHETIC PRECIPITATION LEACHING PROCEDURE	VA

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VELAP Certificate No.: 11382

**Pace Analytical Services, LLC - Huntersville NC**  
 9800 Kinsey Ave, Suite 100  
 Huntersville, NC 28078

**Virginia Laboratory ID: 460221**  
 Effective Date: June 15, 2021  
 Expiration Date: June 14, 2022

**SOLID AND CHEMICAL MATERIALS**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 3510 C	PREP: LIQUID-LIQUID EXTRACTION	VA	EPA 3546	PREP: MICROWAVE EXTRACTION	VA
EPA 3550 B	PREP: ULTRASONIC EXTRACTION	VA	EPA 3580 A	PREP: WASTE DILUTION	VA
EPA 5030 B	PREP: PURGE AND TRAP FOR AQUEOUS SAMPLES	VA	EPA 5035	PREP: CLOSED-SYSTEM PURGE AND TRAP AND EXTRACTION	VA
EPA 8015 C	DIESEL RANGE ORGANICS (DRO)	VA	EPA 8015 C	GASOLINE RANGE ORGANICS (GRO)	VA
EPA 8015 C - EXTENDED	OIL RANGE ORGANICS	VA	EPA 8081 B	4,4'-DDD	VA
EPA 8081 B	4,4'-DDE	VA	EPA 8081 B	4,4'-DDT	VA
EPA 8081 B	ALDRIN	VA	EPA 8081 B	ALPHA-BHC (ALPHA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	ALPHA-CHLORDANE (CIS-CHLORDANE)	VA	EPA 8081 B	BETA-BHC (BETA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	CHLORDANE, TOTAL	VA	EPA 8081 B	DELTA-BHC	VA
EPA 8081 B	DIELDRIN	VA	EPA 8081 B	ENDOSULFAN I	VA
EPA 8081 B	ENDOSULFAN II	VA	EPA 8081 B	ENDOSULFAN SULFATE	VA
EPA 8081 B	ENDRIN	VA	EPA 8081 B	ENDRIN ALDEHYDE	VA
EPA 8081 B	ENDRIN KETONE	VA	EPA 8081 B	GAMMA-BHC (LINDANE, GAMMA-HEXACHLOROCYCLOHEXANE)	VA
EPA 8081 B	GAMMA-CHLORDANE (BETA-CHLORDANE, TRANS-CHLORDANE)	VA	EPA 8081 B	HEPTACHLOR	VA
EPA 8081 B	HEPTACHLOR EPOXIDE	VA	EPA 8081 B	HEXACHLOROBENZENE	VA
EPA 8081 B	METHOXYCHLOR	VA	EPA 8081 B	TOXAPHENE (CHLORINATED CAMPHENE)	VA
EPA 8081 B - EXTENDED	MIREX	VA	EPA 8082 A	AROCLOR-1016 (PCB-1016)	VA
EPA 8082 A	AROCLOR-1221 (PCB-1221)	VA	EPA 8082 A	AROCLOR-1232 (PCB-1232)	VA
EPA 8082 A	AROCLOR-1242 (PCB-1242)	VA	EPA 8082 A	AROCLOR-1248 (PCB-1248)	VA
EPA 8082 A	AROCLOR-1254 (PCB-1254)	VA	EPA 8082 A	AROCLOR-1260 (PCB-1260)	VA
EPA 8082 A - EXTENDED	AROCLOR-1262 (PCB-1262)	VA	EPA 8082 A - EXTENDED	AROCLOR-1268 (PCB-1268)	VA
EPA 8082 A - OIL	AROCLOR-1016 (PCB-1016)	VA	EPA 8082 A - OIL	AROCLOR-1221 (PCB-1221)	VA
EPA 8082 A - OIL	AROCLOR-1232 (PCB-1232)	VA	EPA 8082 A - OIL	AROCLOR-1242 (PCB-1242)	VA
EPA 8082 A - OIL	AROCLOR-1248 (PCB-1248)	VA	EPA 8082 A - OIL	AROCLOR-1254 (PCB-1254)	VA
EPA 8082 A - OIL	AROCLOR-1260 (PCB-1260)	VA	EPA 8082 A - OIL - EXTENDED	AROCLOR-1262 (PCB-1262)	VA
EPA 8082 A - OIL - EXTENDED	AROCLOR-1268 (PCB-1268)	VA	EPA 8260 D	1,1,1,2-TETRACHLOROETHANE	VA
EPA 8260 D	1,1,1-TRICHLOROETHANE	VA	EPA 8260 D	1,1,2,2-TETRACHLOROETHANE	VA
EPA 8260 D	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)	VA	EPA 8260 D	1,1,2-TRICHLOROETHANE	VA
EPA 8260 D	1,1-DICHLOROETHANE	VA	EPA 8260 D	1,1-DICHLOROETHYLENE	VA
EPA 8260 D	1,1-DICHLOROPROPENE	VA	EPA 8260 D	1,2,3-TRICHLOROBENZENE	VA

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**Commonwealth of Virginia**  
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**Virginia Laboratory ID: 460221**  
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**SOLID AND CHEMICAL MATERIALS**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8260 D	1,2,3-TRICHLOROPROPANE	VA	EPA 8260 D	1,2,3-TRIMETHYLBENZENE	VA
EPA 8260 D	1,2,4-TRICHLOROBENZENE	VA	EPA 8260 D	1,2,4-TRIMETHYLBENZENE	VA
EPA 8260 D	1,2-DIBROMO-3-CHLOROPROPANE (DBCP)	VA	EPA 8260 D	1,2-DIBROMOETHANE (EDB, ETHYLENE DIBROMIDE)	VA
EPA 8260 D	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 8260 D	1,2-DICHLOROETHANE (ETHYLENE DICHLORIDE)	VA
EPA 8260 D	1,2-DICHLOROPROPANE	VA	EPA 8260 D	1,3,5-TRIMETHYLBENZENE	VA
EPA 8260 D	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA	EPA 8260 D	1,3-DICHLOROPROPANE	VA
EPA 8260 D	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA	EPA 8260 D	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA
EPA 8260 D	2,2-DICHLOROPROPANE	VA	EPA 8260 D	2-BUTANONE (METHYL ETHYL KETONE, MEK)	VA
EPA 8260 D	2-CHLOROTOLUENE	VA	EPA 8260 D	2-HEXANONE	VA
EPA 8260 D	4-CHLOROTOLUENE	VA	EPA 8260 D	4-ISOPROPYLTOLUENE (P-CYMENE, P-ISOPROPYLTOLUENE)	VA
EPA 8260 D	4-METHYL-2-PENTANONE (METHYL ISOBUTYL KETONE, MIBK)	VA	EPA 8260 D	ACETONE	VA
EPA 8260 D	ACETONITRILE	VA	EPA 8260 D	ACROLEIN (PROPENAL)	VA
EPA 8260 D	ACRYLONITRILE	VA	EPA 8260 D	ALLYL CHLORIDE (3-CHLOROPROPENE)	VA
EPA 8260 D	BENZENE	VA	EPA 8260 D	BROMOBENZENE	VA
EPA 8260 D	BROMOCHLOROMETHANE	VA	EPA 8260 D	BROMODICHLOROMETHANE	VA
EPA 8260 D	BROMOFORM	VA	EPA 8260 D	CARBON DISULFIDE	VA
EPA 8260 D	CARBON TETRACHLORIDE	VA	EPA 8260 D	CHLOROBENZENE	VA
EPA 8260 D	CHLORODIBROMOMETHANE	VA	EPA 8260 D	CHLOROETHANE (ETHYL CHLORIDE)	VA
EPA 8260 D	CHLOROFORM	VA	EPA 8260 D	CHLOROPRENE (2-CHLORO-1,3-BUTADIENE)	VA
EPA 8260 D	CIS-1,2-DICHLOROETHYLENE	VA	EPA 8260 D	CIS-1,3-DICHLOROPROPENE	VA
EPA 8260 D	CIS-1,4-DICHLORO-2-BUTENE	VA	EPA 8260 D	CYCLOHEXANE	VA
EPA 8260 D	D-ISOPROPYLETHER (DIPE, ISOPROPYL ETHER)	VA	EPA 8260 D	DIBROMOMETHANE (METHYLENE BROMIDE)	VA
EPA 8260 D	DICHLORODIFLUOROMETHANE (FREON-12)	VA	EPA 8260 D	DIETHYL ETHER	VA
EPA 8260 D	ETHANOL	VA	EPA 8260 D	ETHYL ACETATE	VA
EPA 8260 D	ETHYL METHACRYLATE	VA	EPA 8260 D	ETHYL-T-BUTYLETHER (2-ETHOXY-2-METHYLPROPANE, ETBE)	VA
EPA 8260 D	ETHYLBENZENE	VA	EPA 8260 D	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA 8260 D	IODOMETHANE (METHYL IODIDE)	VA	EPA 8260 D	ISOBUTYL ALCOHOL (2-METHYL-1-PROPANOL)	VA
EPA 8260 D	ISOPROPYLBENZENE	VA	EPA 8260 D	M+P-XYLENE	VA
EPA 8260 D	METHACRYLONITRILE	VA	EPA 8260 D	METHYL ACETATE	VA

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**SOLID AND CHEMICAL MATERIALS**

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8260 D	METHYL BROMIDE (BROMOMETHANE)	VA	EPA 8260 D	METHYL CHLORIDE (CHLOROMETHANE)	VA
EPA 8260 D	METHYL METHACRYLATE	VA	EPA 8260 D	METHYL TERT-BUTYL ETHER (MTBE)	VA
EPA 8260 D	METHYLCYCLOHEXANE	VA	EPA 8260 D	METHYLENE CHLORIDE (DICHLOROMETHANE)	VA
EPA 8260 D	N-BUTYLBENZENE	VA	EPA 8260 D	N-PROPYLBENZENE	VA
EPA 8260 D	NAPHTHALENE	VA	EPA 8260 D	O-XYLENE	VA
EPA 8260 D	PENTACHLOROETHANE	VA	EPA 8260 D	PROPIONITRILE (ETHYL CYANIDE)	VA
EPA 8260 D	SEC-BUTYLBENZENE	VA	EPA 8260 D	STYRENE	VA
EPA 8260 D	T-AMYLMETHYLETHER (TAME)	VA	EPA 8260 D	TERT-BUTYL ALCOHOL (2-METHYL-2-PROPANOL)	VA
EPA 8260 D	TERT-BUTYLBENZENE	VA	EPA 8260 D	TETRACHLOROETHENE (PERCHLOROETHENE)	VA
EPA 8260 D	TOLUENE	VA	EPA 8260 D	TRANS-1,2-DICHLOROETHENE	VA
EPA 8260 D	TRANS-1,3-DICHLOROPROPENE (TRANS-1,3-DICHLOROPROPYLENE)	VA	EPA 8260 D	TRANS-1,4-DICHLORO-2-BUTENE	VA
EPA 8260 D	TRICHLOROETHENE (TRICHLOROETHYLENE)	VA	EPA 8260 D	TRICHLOROFLUOROMETHANE (FLUOROTRICHLOROMETHANE, FREON 11)	VA
EPA 8260 D	VINYL ACETATE	VA	EPA 8260 D	VINYL CHLORIDE (CHLOROETHENE)	VA
EPA 8260 D	XYLENE (TOTAL)	VA	EPA 8260 D - EXTENDED	3,3-DIMETHYL-1-BUTANOL	VA
EPA 8260 D - EXTENDED	CIS & TRANS-1,2-DICHLOROETHENE	VA	EPA 8260 D - EXTENDED	CYCLOHEXANONE	VA
EPA 8260 D - EXTENDED	N-HEXANE	VA	EPA 8260 D - EXTENDED	T-AMYL ALCOHOL (TAA)	VA
EPA 8260 D - EXTENDED	TERT-BUTYL FORMATE	VA	EPA 8260 D - EXTENDED	TETRAHYDROFURAN (THF)	VA
EPA 8260 D SIM	1,4-DIOXANE (P-DIOXANE /1,4-DIETHYLENEOXIDE)	VA	EPA 8270 E	1,1'-BIPHENYL (BZ-0)	VA
EPA 8270 E	1,2,4,5-TETRACHLOROBENZENE	VA	EPA 8270 E	1,2,4-TRICHLOROBENZENE	VA
EPA 8270 E	1,2-DICHLOROBENZENE (O-DICHLOROBENZENE)	VA	EPA 8270 E	1,2-DIPHENYLHYDRAZINE	VA
EPA 8270 E	1,3,5-TRINITROBENZENE (1,3,5-TNB)	VA	EPA 8270 E	1,3-DICHLOROBENZENE (M-DICHLOROBENZENE)	VA
EPA 8270 E	1,3-DINITROBENZENE (1,3-DNB)	VA	EPA 8270 E	1,4-DICHLOROBENZENE (P-DICHLOROBENZENE)	VA
EPA 8270 E	1,4-DINITROBENZENE (1,4-DNB)	VA	EPA 8270 E	1,4-NAPHTHOQUINONE	VA
EPA 8270 E	1,4-PHENYLENEDIAMINE	VA	EPA 8270 E	1-METHYLNAPHTHALENE	VA
EPA 8270 E	1-NAPHTHYLAMINE	VA	EPA 8270 E	2,3,4,6-TETRACHLOROPHENOL	VA
EPA 8270 E	2,4,5-TRICHLOROPHENOL	VA	EPA 8270 E	2,4,6-TRICHLOROPHENOL	VA
EPA 8270 E	2,4-DICHLOROPHENOL	VA	EPA 8270 E	2,4-DIMETHYLPHENOL	VA
EPA 8270 E	2,4-DINITROPHENOL	VA	EPA 8270 E	2,4-DINITROTOLUENE (2,4-DNT)	VA
EPA 8270 E	2,6-DICHLOROPHENOL	VA	EPA 8270 E	2,6-DINITROTOLUENE (2,6-DNT)	VA
EPA 8270 E	2-ACETYLAMINOFLUORENE	VA	EPA 8270 E	2-CHLORONAPHTHALENE	VA
EPA 8270 E	2-CHLOROPHENOL	VA			

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**SOLID AND CHEMICAL MATERIALS**

METHOD	ANALYTE	PRIMARY	METHOD	ANALYTE	PRIMARY
EPA 8270 E	2-METHYL-4,6-DINITROPHENOL (4,6-DINITRO-2-METHYLPHENOL)	VA	EPA 8270 E	2-METHYLNAPHTHALENE	VA
EPA 8270 E	2-METHYLPHENOL (O-CRESOL)	VA	EPA 8270 E	2-NAPHTHYLAMINE	VA
EPA 8270 E	2-NITROANILINE	VA	EPA 8270 E	2-NITROPHENOL	VA
EPA 8270 E	2-PICOLINE (2-METHYLPYRIDINE)	VA	EPA 8270 E	3+4-METHYLPHENOL (M+P CRESOL)	VA
EPA 8270 E	3,3'-DICHLOROBENZIDINE	VA	EPA 8270 E	3,3'-DIMETHYLBENZIDINE	VA
EPA 8270 E	3-METHYLCHOLANTHRENE	VA	EPA 8270 E	3-METHYLPHENOL (M-CRESOL)	VA
EPA 8270 E	3-NITROANILINE	VA	EPA 8270 E	4,4'-METHYLENEBIS-2-CHLOROANIL INE	VA
EPA 8270 E	4-AMINOBIIPHENYL	VA	EPA 8270 E	4-BROMOPHENYL PHENYL ETHER (BDE-3)	VA
EPA 8270 E	4-CHLORO-3-METHYLPHENOL	VA	EPA 8270 E	4-CHLOROANILINE	VA
EPA 8270 E	4-CHLOROPHENYL PHENYLETHER	VA	EPA 8270 E	4-NITROANILINE	VA
EPA 8270 E	4-NITROPHENOL	VA	EPA 8270 E	4-NITROQUINOLINE-1-OXIDE	VA
EPA 8270 E	5-NITRO-O-TOLUIDINE	VA	EPA 8270 E	7,12-DIMETHYLBENZ(A) ANTHRACENE	VA
EPA 8270 E	A-A-DIMETHYLPHENETHYLAMINE	VA	EPA 8270 E	ACENAPHTHENE	VA
EPA 8270 E	ACENAPHTHYLENE	VA	EPA 8270 E	ACETOPHENONE	VA
EPA 8270 E	ANILINE	VA	EPA 8270 E	ANTHRACENE	VA
EPA 8270 E	ARAMITE	VA	EPA 8270 E	ATRAZINE	VA
EPA 8270 E	AZOBENZENE	VA	EPA 8270 E	BENZALDEHYDE	VA
EPA 8270 E	BENZIDINE	VA	EPA 8270 E	BENZO(A)ANTHRACENE	VA
EPA 8270 E	BENZO(A)PYRENE	VA	EPA 8270 E	BENZO(B)FLUORANTHENE	VA
EPA 8270 E	BENZO(G,H,I)PERYLENE	VA	EPA 8270 E	BENZO(K)FLUORANTHENE	VA
EPA 8270 E	BENZOIC ACID	VA	EPA 8270 E	BENZYL ALCOHOL	VA
EPA 8270 E	BIS(2-CHLOROETHOXY)METHANE	VA	EPA 8270 E	BIS(2-CHLOROETHYL) ETHER	VA
EPA 8270 E	BIS(2-ETHYLHEXYL) PHTHALATE (D(2-ETHYLHEXYL)PHTHALATE), (DEHP)	VA	EPA 8270 E	BUTYL BENZYL PHTHALATE	VA
EPA 8270 E	CAPROLACTAM	VA	EPA 8270 E	CARBAZOLE	VA
EPA 8270 E	CHLOROBENZILATE	VA	EPA 8270 E	CHRYSENE	VA
EPA 8270 E	DI-N-BUTYL PHTHALATE	VA	EPA 8270 E	DI-N-OCTYL PHTHALATE	VA
EPA 8270 E	DIALATE	VA	EPA 8270 E	DIBENZO(A,E) PYRENE	VA
EPA 8270 E	DIBENZO(A,H) ANTHRACENE	VA	EPA 8270 E	DIBENZOFURAN	VA
EPA 8270 E	DIETHYL PHTHALATE	VA	EPA 8270 E	DIMETHOATE	VA
EPA 8270 E	DIMETHYL PHTHALATE	VA	EPA 8270 E	DINOSEB (2-SEC-BUTYL-4,6-DINITROPHENOL, DNBP)	VA
EPA 8270 E	DIPHENYLAMINE	VA	EPA 8270 E	DISULFOTON	VA
EPA 8270 E	ETHYL METHANESULFONATE	VA	EPA 8270 E	FAMPHUR	VA
EPA 8270 E	FLUORANTHENE	VA	EPA 8270 E	FLUORENE	VA

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**SOLID AND CHEMICAL MATERIALS**

<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>	<u>METHOD</u>	<u>ANALYTE</u>	<u>PRIMARY</u>
EPA 8270 E	HEXACHLOROBENZENE	VA	EPA 8270 E	HEXACHLOROBUTADIENE (1,3-HEXACHLOROBUTADIENE)	VA
EPA 8270 E	HEXACHLOROCYCLOPENTADIENE	VA	EPA 8270 E	HEXACHLOROETHANE	VA
EPA 8270 E	HEXACHLOROPHENE	VA	EPA 8270 E	HEXACHLOROPROPENE	VA
EPA 8270 E	INDENO(1,2,3-CD) PYRENE	VA	EPA 8270 E	ISODRIN	VA
EPA 8270 E	ISOPHORONE	VA	EPA 8270 E	ISOSAFROLE	VA
EPA 8270 E	KEPONE	VA	EPA 8270 E	METHAPYRILENE	VA
EPA 8270 E	METHYL METHANESULFONATE	VA	EPA 8270 E	METHYL PARATHION (PARATHION, METHYL)	VA
EPA 8270 E	N-NITROSO-DI-N-BUTYLAMINE	VA	EPA 8270 E	N-NITROSODI-N-PROPYLAMINE	VA
EPA 8270 E	N-NITROSODIETHYLAMINE	VA	EPA 8270 E	N-NITROSODIMETHYLAMINE	VA
EPA 8270 E	N-NITROSODIPHENYLAMINE	VA	EPA 8270 E	N-NITROSOMETHYLETHYLAMINE	VA
EPA 8270 E	N-NITROSOMORPHOLINE	VA	EPA 8270 E	N-NITROSOPIPERIDINE	VA
EPA 8270 E	N-NITROSOPYRROLIDINE	VA	EPA 8270 E	NAPHTHALENE	VA
EPA 8270 E	NITROBENZENE	VA	EPA 8270 E	O,O,O-TRIETHYL PHOSPHOROTHIOATE	VA
EPA 8270 E	O-TOLUIDINE (2-METHYLANILINE)	VA	EPA 8270 E	PARATHION (PARATHION - ETHYL)	VA
EPA 8270 E	PENTACHLOROBENZENE	VA	EPA 8270 E	PENTACHLORONITROBENZENE	VA
EPA 8270 E	PENTACHLOROPHENOL	VA	EPA 8270 E	PHENACETIN	VA
EPA 8270 E	PHENANTHRENE	VA	EPA 8270 E	PHENOL	VA
EPA 8270 E	PHORATE	VA	EPA 8270 E	PHTHALIC ANHYDRIDE	VA
EPA 8270 E	PRONAMIDE (KERB)	VA	EPA 8270 E	PYRENE	VA
EPA 8270 E	PYRIDINE	VA	EPA 8270 E	SAFROLE	VA
EPA 8270 E	SULFOTEPP (TETRAETHYL DITHIOPYROPHOSPHATE)	VA	EPA 8270 E	THIONAZIN (ZINOPHOS, DIETHYL-O-2-PYRAZINYL PHOSPHOROTHIONATE)	VA
EPA 8270 E	TOLUENE DIISOCYANATE	VA	EPA 8270 E	TRIS-(2,3-DIBROMOPROPYL) PHOSPHATE (TRIS-BP)	VA
EPA 8270 E - EXTENDED	2,2'-OXYBIS(1-CHLOROPROPANE)	VA	EPA 8270 E - EXTENDED	4-DIMETHYL AMINOAZOBENZENE	VA
EPA 8270 E - EXTENDED	ALPHA-TERPINEOL	VA	EPA 8270 E - EXTENDED	BENZAL CHLORIDE	VA
EPA 8270 E - EXTENDED	DIPHENYL ETHER (DIPHENYL OXIDE)	VA	EPA 8270 E - EXTENDED	DIPHENYL KETONE (BENZOPHENONE)	VA
EPA 8270 E - EXTENDED	N-DECANE	VA	EPA 8270 E - EXTENDED	N-OCTANE	VA
EPA 8270 E - EXTENDED	PENTACHLOROETHANE	VA	EPA 8270 E - EXTENDED	TRICLOSAN	VA
EPA 8270 E SIM	2-METHYLNAPHTHALENE	VA	EPA 8270 E SIM	ACENAPHTHENE	VA
EPA 8270 E SIM	ACENAPHTHYLENE	VA	EPA 8270 E SIM	ANTHRACENE	VA
EPA 8270 E SIM	BENZO(A)ANTHRACENE	VA	EPA 8270 E SIM	BENZO(A)PYRENE	VA
EPA 8270 E SIM	BENZO(B)FLUORANTHENE	VA	EPA 8270 E SIM	BENZO(G,H,I)PERYLENE	VA
EPA 8270 E SIM	BENZO(K)FLUORANTHENE	VA	EPA 8270 E SIM	CHRYSENE	VA
EPA 8270 E SIM	DIBENZO(A,H) ANTHRACENE	VA	EPA 8270 E SIM	FLUORANTHENE	VA
EPA 8270 E SIM	FLUORENE	VA	EPA 8270 E SIM	INDENO(1,2,3-CD) PYRENE	VA

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EPA 8270 E SIM	NAPHTHALENE	VA	EPA 8270 E SIM	PHENANTHRENE	VA
EPA 8270 E SIM	PYRENE	VA			



## Document Information

**Document Number:** ENV-SOP-HUN1-0020

**Revision:** 04

**Document Title:** Determination of Volatile Organics by Gas Chromatography/Mass Spectrometry

**Department(s):** VOA

## Date Information

**Effective Date:** 10 Feb 2021

## Notes

**Document Notes:**

All Dates and Times are listed in: Central Time Zone

## Signature Manifest

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**Title:** Determination of Volatile Organics by Gas Chromatography/Mass Spectrometry

All dates and times are in Central Time Zone.

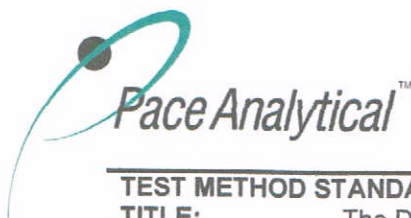
**ENV-SOP-HUN1-0020 Determination of Volatile Organics by Gas Chromatography/Mass Spectrom...**

### QM Approval

Name/Signature	Title	Date	Meaning/Reason
Ross Simmons (008669)	Manager - Quality	09 Feb 2021, 01:26:09 PM	Approved

### Management Approval

Name/Signature	Title	Date	Meaning/Reason
Ross Simmons (008669)	Manager - Quality	09 Feb 2021, 01:25:56 PM	Approved
Charles Hardin III (007342)	Manager - Operations	10 Feb 2021, 07:25:20 AM	Approved




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**TEST METHOD STANDARD OPERATING PROCEDURE**

**TITLE:** The Determination of Volatile Organics by Gas Chromatography/Mass Spectrometry  
**TEST METHOD** EPA 8260D, EPA 8260B, 5030B, 5035  
**ISSUER:** Pace ENV – Huntersville Quality – HUN1

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## 1.0 SCOPE AND APPLICATION

This standard operating procedure (SOP) describes the laboratory procedure for the determination of the concentration of volatile organic compounds by GC/MS.

### 1.1 Target Analyte List and Limits of Quantitation (LOQ)

The target analytes and the normal LOQ that can be achieved with this procedure are provided in Table 1, Appendix A.

LOQ are established in accordance with Pace policy and SOPs for method validation and for the determination of detection limits (DL) and quantitation limits (LOQ). DL and LOQ are routinely verified and updated when needed. The current LOQ for each target analyte that can be determined by this SOP as of the effective date of this SOP is provided in Table 1, Appendix A.

The reporting limit (RL) is the value to which analytes are reported as detected or not detected in the final report. When the RL is less than the lower limit of quantitation (LLOQ), all detects and non-detects at the RL are qualitative. The LLOQ is the lowest point of the calibration curve used for each target analyte.

DL, LOQ, and RL are always adjusted to account for actual amounts used and for dilution.

- 1.2** This method is applicable to most organic compounds that have boiling points below 200 °C and that are insoluble or slightly soluble in water. Volatile water-soluble compounds may also be determined, although achievable quantitation limits are typically higher because of poor purging efficiency. Ketones and alcohols are typical examples. A list of applicable compounds and their CAS numbers are shown in Table 2, Appendix A.
- 1.3** Additional compounds outside the scope of EPA method 8260 can be analyzed using this procedure. Selectivity has been established following criteria in EPA Method 8260. Those compounds are also shown with an asterisk \* in Table 2, Appendix A.
- 1.4** This method is applicable to aqueous and solid samples. Sample matrices include water, groundwater, aqueous sludge, sediment and soil.

## 2.0 SUMMARY OF METHOD

The volatile organic compounds are introduced into the gas chromatograph by a purge-and trap method. The analytes are purged from a 5 mL sample aliquot or extract by sparging with an inert gas (helium or nitrogen). The purged analytes are trapped in a sorbent tube. At the completion of the purge time, the sorbent tube is rapidly heated and back flushed with helium to desorb trapped analytes directly onto the inlet of a capillary gas chromatography column. The carrier gas flow through the column is controlled and the temperature is increased according to a set program to achieve optimum separation of purged analytes. The gas chromatographic detector is a mass spectrometer operated in a repetitive scan mode.

Analytes are identified by comparison of their mass spectra with spectra of authentic standards. Analytes are quantified by comparing the response of a selected major (quantitation) ion relative to an

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internal standard using a five-point calibration curve. Major and secondary quantitation ions for each applicable compound are shown in Table 2, Appendix A.

### 3.0 INTERFERENCES

**3.1** Contaminant sources are volatile materials in the laboratory and impurities in the inert purging gas and in the sorbent trap. The use of non-polytetrafluoroethylene (PTFE) thread sealants, plastic tubing, or flow controllers with rubber components must be avoided since such materials can be sources of compounds which can concentrate in the trap during the purging. Analyses of blanks provide information about the presence of contaminants. When potential interfering peaks are noted in blanks, the analyst must investigate the source of contamination and correct it. Subtracting blank values from sample results is not permitted. If the laboratory feels that a sample results is a false positive due to these sources, this must be fully explained in text accompanying the uncorrected data.

**3.2** Carryover varies per instrument and per compound. To properly specify a carryover policy that covers all systems and compounds, a definition of carryover must be established. Whenever carryover is suspected, the goal is to eliminate carryover contribution from the reported results.

Contamination by carryover can occur whenever high-concentration and low-concentration samples are analyzed in sequence. Carryover may cause a positive result at or above the Pace Reporting Limit (PRL). If the target compounds present in an unusually concentrated sample are also found to be present in the subsequent samples, the analyst must demonstrate by reanalysis that the results obtained are not due to carryover. Conversely, if those target compounds are not present in the subsequent sample, then the analysis of a solvent blank or organic-free reagent water is not necessary.

In addition to carryover of compounds from one sample to the next, the analysis of high-concentration samples can lead to contamination of the analytical instrument itself. The procedures for ensuring minimum down time during the analysis of Volatile samples include screening samples and diluting based on historical data. The analyst will use the available knowledge to choose an appropriate dilution factor for the Volatile analysis that will prevent system contamination yet still provide adequate sensitivity for the major constituents of the sample. If the analyst knows that the sample is hot and it must be run 10x lower to try to meet a client requested PRL, then blanks will be run immediately following that sample until the compounds that were carrying over are below the PRL. Where practical, samples with unusually high concentrations of analytes will be followed by a blank water to check for cross-contamination.

**3.3** Since methylene chloride and acetone are common laboratory solvents, special precautions must be taken. The volatiles analysis and sample storage area must be isolated from areas where these solvents are used or stored. Where possible, the volatiles analysis and sample storage area will be served by a separate HVAC system. Laboratory clothing previously exposed to methylene chloride fumes during extraction procedures can contribute to sample contamination.

### 4.0 DEFINITIONS

Refer to the Laboratory Quality Manual for a glossary of common lab terms and definitions.

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## 5.0 HEALTH AND SAFETY

The toxicity or carcinogenicity of each chemical material used in the laboratory has not been fully established. Each chemical should be regarded as a potential health hazard and exposure to these compounds should be as low as reasonably achievable.

The laboratory maintains documentation of hazard assessments and OSHA regulations regarding the safe handling of the chemicals specified in each method. Safety data sheets for all hazardous chemicals are available to all personnel. Employees must abide by the health, safety and environmental (HSE) policies and procedures specified in this SOP and in the Pace Chemical Hygiene / Safety Manual.

Personal protective equipment (PPE) such as safety glasses, gloves, and a laboratory coat must be worn in designated areas and while handling samples and chemical materials to protect against physical contact with samples that contain potentially hazardous chemicals and exposure to chemical materials used in the procedure.

Concentrated corrosives present additional hazards and are damaging to skin and mucus membranes. Use these acids in a fume hood whenever possible with additional PPE designed for handling these materials. If eye or skin contact occurs, flush with large volumes of water. When working with acids, always add acid to water to prevent violent reactions. Any processes that emit large volumes of solvents (*evaporation/concentration processes*) must be in a hood or apparatus that prevents employee exposure.

Contact your supervisor or local HSE coordinator with questions or concerns regarding safety protocol or safe handling procedures for this procedure.

## 6.0 SAMPLE COLLECTION, PRESERVATION, HOLDING TIME, AND STORAGE

Samples should be collected in accordance with a sampling plan and procedures appropriate to achieve the regulatory, scientific, and data quality objectives for the project.

The laboratory performs samples collection for samples to be analyzed by this SOP in accordance with laboratory SOP ENV-SOP-CAR-0040 *Field Sampling*. Refer to this SOP for these instructions.

The laboratory will provide containers for the collection of samples upon client request for analytical services. Bottle kits are prepared in accordance with laboratory SOP ENV-SOP-CAR-0020 *Bottle Preparation*. The bottle kits provided by the laboratory should include field test kits and treatment reagent.

Requirements for container type, preservation, and field quality control (QC) for the common list of test methods offered by Pace are included in the laboratory's quality manual.

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## General Requirements

### 6.1 Water Samples

#### 6.1.1 Sample Collection and Preservation

Samples are collected in 40-mL vials with PTFE-lined septa and screw cap (or equivalent). Prior to filling the vials with sample, sufficient 1:1 HCl (1-2 drops) is added to each vial to preserve the sample at pH<2. Each sample vial is carefully filled and capped to eliminate any headspace. Sample vials with bubbles larger than 5 mm are to be footnoted at analysis as head space if there is no other vial or aliquot to use for that sample. It is recommended to collect 3 vials for each sample. HCl preservation may be inappropriate for highly reactive compounds (e.g. vinyl chloride, styrene, and 2-chloroethylvinyl ether). Unpreserved samples must be analyzed within 7 days. Samples requiring acrolein and acrylonitrile must be adjusted to a pH of 4-5 and analyzed within 7 days, or the result will be reported with qualification.

#### 6.1.2 Hold Time

Analysis must be performed within 14 days of collection. Unpreserved samples must be analyzed within 7 days.

### 6.2 Soil/Solid Samples

#### 6.2.1 Sample Collection and Preservation

Solid/soil samples are collected in 3 vials for each sample, two 10-g aliquots for high-level analysis (MeOH), and a third vial for moisture control.

##### 6.2.1.1 High-Level Aliquot

Two 10-g aliquots are collected in a 40-mL vial with PTFE-lined septa and screw cap (or equivalent). The vials are prepared with 10 mL of methanol and the tare weight on the vial label.

##### 6.2.1.2 Moisture Aliquot

One aliquot is collected by filling a 40-mL vial with PTFE-lined septa and screw cap (or equivalent).

#### 6.2.2 Holding Time

All sample aliquots must be analyzed within 14 days of collection. Soils analyzed by EPA Method 5035 criteria have a holding time of 48 hours after collection, unless preserved. Preservation extends the holding time to 14 days.

#### 6.2.3 Alternate Collection Containers for Soils

Soil samples collected in containers other than specified in this SOP may not be compliant for monitoring purposes. These samples must be qualified on the final report. Soils received in 4oz soil jars that cannot be preserved with in 48hr may be run by EPA Method 5030 using the medium level extraction procedures for high-level analysis without qualification but will have elevated reporting limits.

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### 6.3 TCLP Leachates

Leachates are collected in 40-mL vials with PTFE-lined septa and screw cap (or equivalent). Each sample vial is carefully filled and capped to eliminate any headspace. Sample vials with bubbles larger than 5 may be discarded. Store all samples at 0.0 – 6.0 °C and analyze within 14 days of initiating the leaching procedure.

Thermal preservation is checked and recorded on receipt in the laboratory in accordance with laboratory SOP ENV-SOP-CAR-0005 *Sample Management*. Chemical preservation is checked and recorded after analysis to avoid opening the VOA vials prior to analysis. NC WW/GW Lab Certification will be notified when samples do not meet thermal or chemical preservation or are received outside of holding time.

After receipt, samples are stored at 0.0-6.0°C until sample preparation. Prepared samples (extracts, digestates, distillates, other) are stored at 0.0-6.0°C until sample analysis.

After analysis, unless otherwise specified in the analytical services contract, samples are retained for 21 days from date of final report and then disposed of in accordance with Federal, State, and Local regulations.

## 7.0 EQUIPMENT AND SUPPLIES

### 7.1 Equipment

#### 7.1.1 Purge-Trap GC/MS System

The complete purge-trap GC/MS system must include an autosampler with a 5 mL sample loop or syringe, sample concentrator, and GC/MS with associated Data System.

**7.1.2** Desktop PC with dual monitors equipped to run appropriate software and capable of network connectivity.

**7.1.3** System compatible Chemstation version for data acquisition.

**7.1.4** Target version 4.1 or equivalent for data reduction and reporting to Epic Pro.

### 7.2 Supplies

**7.2.1** Sample Vials – 40mL with Teflon-lined septa and screw caps (or equivalent).

**7.2.2** Volumetric Flasks (class A) – 5mL, 10mL, 20mL, 50mL, 100mL, and 200mL.

**7.2.3** Teflon Minnert Valves – appropriate sizes for vials used

**7.2.4** Gas-tight Syringe – 10µL, 25µL, 50µL, 100µL, 250µL, 500µL, 1mL, 5mL, 10mL, 25mL

**7.2.5** Teflon Dispensing Bottles – for organic-free water (OFW) and methanol

**7.2.6** pH Test Strips

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## 8.0 REAGENTS AND STANDARDS

### 8.1 Reagents

- 8.1.1** Organic-Free Water (OFW) – Carbon filtered. Verify that background levels of volatile compounds are acceptable by analysis.
- 8.1.2** Ottawa Sand – Fisher, catalog # MSX00751
- 8.1.3** Methanol – Purge and Trap grade or equivalent.

### 8.2 Standards

#### 8.2.1 Stock Standards

Standard	Vendor	Catalog #	Concentration
VOC 37-2	o2si	120921-02-02	Various
VOC 54	o2si	120023-03-02	2,000 mg/L
Acrolein/Acrylonitrile	o2si	120014-01-02	10,000 mg/L
VOC 3-20	o2si	120282-03-02	4,000-100,000 mg/L
8260 Gases	o2si	120016-03	2,000 mg/L
Pentachloroethane	o2si	020052-02-02	2,000 mg/L
Ethylene oxide	AccuStandard	M8015B/5031-14-R1	5,000 mg/L
VOC 37-2 SS	o2si	120921-02-02-SS	Various
VOC 60 SS	o2si	120022-01-02-SS	2,000 mg/L
Acrolein/Acrylonitrile SS	o2si	120014-01-02-SS	10,000 mg/L
VOC 3-20 SS	o2si	120282-03-02-SS	4,000-100,000 mg/L
8260 IS/SS	o2si	120330-03-P	5,000 mg/L
VOC 4-20	o2si	120729-03-02	2000/4000/100,000 mg/L

Equivalent standards may be used. Stock standards are used before the manufacturer's expiration date and are depleted upon opening.

#### 8.2.2 Preparation of Analytical Standard Solution

All standards are prepared using purge and trap grade methanol and stored in vials with Minniner valves at -10 – -20°C. Gas working standards solutions must be replaced after one week of use. All other standards are replaced after 6 months or if stock standard expiration date is sooner. Standards are replaced sooner if signs of degradation are observed. Record all standard preparations in the electronic workbench.

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### 8.2.2.1 Working Standard Preparation

Solution Name	Standard Name	Initial Volume	Initial Conc.	Solvent	Final Volume	Final Conc.
MSV 8260 EZ Soil MIX	54 STK	500 µL	2,000/4,000 mg/L	Methanol	5 mL	Various
	37-2 STK	500 µL	Various mg/L			
	3-20 STK	500 µL	4,000/100,000 mg/L			
	GAS STK	500 µL	2,000 mg/L			
	Ac/Ac STK	500 µL	10,000 mg/L			
MSV 8260 EZ SOIL DIL MIX	MSV 8260 EZ SOIL MIX	500 µL	Various	Methanol	5 mL	Various
8260 CAL Stock (H <sub>2</sub> O)	VOC 54	1 mL	2,000 mg/L	Methanol	10 mL	Various
8260 CAL Stock (H <sub>2</sub> O) 8260 CAL DIL (H <sub>2</sub> O)	VOC 37-2	1 mL	Various	Methanol	10 mL 5 mL	Various
8260 CAL Stock (H <sub>2</sub> O) 8260 CAL DIL (H <sub>2</sub> O) 8260 ADD Stock (H <sub>2</sub> O)	Acrolein/Acrylonitrile	1 mL	10,000 mg/L	Methanol	10 mL 5 mL 10mL	Various
8260 CAL Stock (H <sub>2</sub> O) 8260 CAL DIL (H <sub>2</sub> O) 8260 ADD Stock (H <sub>2</sub> O) 8260 ADD DIL (H <sub>2</sub> O)	8260 CAL Stock (H <sub>2</sub> O) VOC 4-20 8260 ADD Stock (H <sub>2</sub> O)	250 µL 1 mL 250 µL	Various 2,000/4,000/100,000 mg/L Various	Methanol	10 mL 5 mL 10 mL 5 mL	Various

### 8.2.3 Preparation of Aqueous and Soil Calibrations

Standards are prepared by spiking the appropriate working standards into organic free water in a 100 mL volumetric flask. See Tables 8.2.3.1 and 8.2.3.2 for specific spike amounts for each calibration level. Use a microsyringe and rapidly inject the alcoholic

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standard into the expanded area of the filled volumetric flask or under the surface of the preservative. Remove the needle as quickly as possible after injection. Mix by inverting the flask three times only. Discard the contents contained in the neck of the flask. Aqueous standards are not stable and must be prepared daily.

### 8.2.3.1 Calibration Standards Preparation Table

5035/5030 Soils				
	Final Conc. (µg/L)	8260 EZ Soil Mix Dil 20 µg/mL	8260 EZ Soil Mix 200 µg/mL	8260 EZ Soil QC 100 µg/mL
ICAL_1	0.2	1.0 µL		
ICAL_2	0.4	2.0 µL		
ICAL_3	1	5.0 µL		
ICAL_4	5		2.5 µL	
ICAL_5	10		5.0 µL	
ICAL_6	20		10 µL	
ICAL_7	50		25 µL	
ICAL_8	100		50 µL	
ICAL_9	200		100 µL	
ICV/LCS	50			50 µL
CCAL	50		25 µL	
MS/MSD	20			9 µL
* Note IS/SS added to samples at autosampler (3µL of 50mg/L on Centurion) Prep in 100 mL volume flasks, transfer to 40mL VOA vial. MS/MSD spiked into 40 mL VOA vial.				

Identification # example: 03091001 (month/day/year/#)

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**8.2.3.2 Calibration Standards Preparation Table**

Waters				
	Final Conc. (µg/L)	8260 Cal/Gas/Add Dil 10 µg/ml	8260 Cal/Gas/Add 200 µg/ml	8260 QC 25 µg/ml
ICAL_1	0.5	5.0 µL		
ICAL_2	1	10.0 µL		
ICAL_3	5		2.5 µL	
ICAL_4	10		5.0 µL	
ICAL_5	20		10 µL	
ICAL_6	50		25 µL	
ICAL_7	100		50 µL	
ICAL_8	200		100 µL	
ICV/LCS	50			
CCAL	20		10 µL	
CCAL	50			
CCAL				

\* Note IS/SS added to samples at autosampler (1µL of 250mg/L on Archon, 5µL of 50mg/L Centurion)

Prep in 100 ml vol flasks, transfer to 40 mL voa vial

Identification # example: 03091001 (month/day/year#)

## 9.0 PROCEDURE

### 9.1 Equipment Preparation

#### 9.1.1 Routine Instrument Operating Conditions

##### 9.1.1.1 Operating Parameters

Refer to Appendix C for standard instrument operating parameters and the instrument maintenance log for any changes to instrument parameters.

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### 9.1.1.2 System Tuning

Run the BFB Tune in the Chemstation software using perfluorotributylamine (PFTBA). The MS parameters will be adjusted to obtain the proper m/z ratios. Save the tune parameters to BFB.u. A BFB tune standard is evaluated against method criteria to verify proper tuning of MS. Manual adjustments may be made if the BFB Tune program does not allow a BFB tune standard to pass criteria. Consult the department supervisor. All changes must be documented and saved to the BFB.u tune file.

### 9.1.2 Tuning

Prior to initial calibration for method 8260D, or at the beginning of each analytical period for method 8260B, the mass spectrometer must be checked with a 50-ng injection of BFB to meet the criteria found in EPA Method 624.1. The spectra used for evaluation is generated using a Target method that takes the average of three scans across the BFB peak and makes a background subtraction. The BFB and calibration verification standard may be combined into a single standard as long as both tuning and calibration acceptance criteria can be met without interferences. A successful BFB tune is valid for 12 hours from the time the tune was injected. Refer to Appendix D for BFB requirements.

## 9.2 Initial Calibration (ICAL)

### 9.2.1 Calibration Sequence

The first calibration standard can be used as the BFB tune standard as well. The typical batch for initial calibration can include the following:

#### 9.2.1.1 Initial Calibration Standards (run low level to high level)

#### 9.2.1.2 Initial Calibration Verification

### 9.2.2 Calibration Design

Analyze at least 5 levels of calibration standards to define the calibration range. Seven calibration standards are purged for water, and nine calibration standards are purged for soils. The lowest concentration will be at or below the target PRL. Refer to EPA Method 8000 for additional information on calibration procedures.

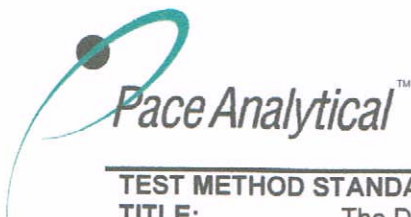
### 9.2.3 ICAL Evaluation

#### 9.2.3.1 Response Factors

Tabulate the area response of the characteristic ions against concentration for each compound and each internal standard. Calculate response factors (RF) for each compound relative to one of the internal standards. The internal standard used should be chosen so that associated compounds are within 0.8 to 1.2 relative retention time (RRT) of the standard. If this criterion cannot be met, the internal standard selected for the calculation of the RF can be the one having a retention time closest to that of the compound.

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### 9.2.3.2 Acceptance Criteria

- **System Performance Check Compounds (SPCCs)**

The minimum response factors for volatile SPCCs are as follows. These criteria applies to 8260B.

SPCC	RF Min
Chloromethane	0.10
1,1-Dichloroethane	0.10
Bromoform	0.10
Chlorobenzene	0.30
1,1,2,2-Tetrachloroethane	0.30

#### Corrective Action

If the minimum response factors are not met, the system must be evaluated, and corrective action must be taken before sample analysis begins (i.e., ripper standards or analyze a new initial calibration curve).

### 9.2.4 Curve Fit

#### 9.2.4.1 8260B Calibration Check Compounds (CCCs)

The percent relative standard deviation (%RSD) for calibration check compound concentrations (CCCs) must be <30%. If any CCC compound has RSD >30%, corrective action and recalibration must occur.

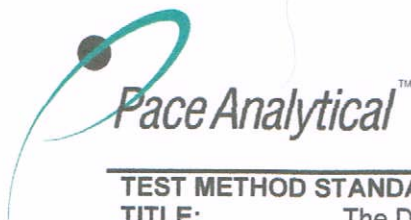
CCC	%RSD
Vinyl Chloride	30
1,1-Dichloroethene	30
Chloroform	30
1,2-Dichloropropane	30
Toluene	30
Ethylbenzene	30

#### 9.2.4.2 Other Target Compounds

If the % RSD of any target compound is greater than 15%, construct calibration curve using a least squares regression with a correlation coefficient >0.99. **Note:** A quadratic curve requires six standards and a third order polynomial requires

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**TEST METHOD** EPA 8260D, EPA 8260B, 5030B, 5035  
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seven standards. When using a calibration model for quantitation the curve must be continuous with increasing consecutive numerical values along the function for the calibration range.

#### 9.2.4.3 8260D Calibration Criteria

The RSD should be  $\leq 20\%$  for every target analyte. If the RSD of any target analyte RF is  $>20\%$ , refer to Sec. 11.5 of Method 8000 for additional calibration options (e.g., narrowing the calibration range, changing calibration model, etc.), and apply one or more of these options in order to meet the ICAL acceptance criteria.

#### 9.2.4.4 Percent Error Verification

The calibration curve points must be recalculated by use of acceptance criteria independent of calibration model using % Error under EPA 8000D. The point associated with sample reporting limits for each analyte must be within  $\pm 50\%$  of the true value and each subsequent point must be within  $\pm 30\%$ .

**Corrective Action:** If initial calibration criteria cannot be met, cause investigation must be initiated. Using a weighted linear regression fit or forcing the regression through the origin are acceptable alternatives under EPA 8000D. Standard preparation and expiration may be checked. New calibration standards may need to be prepared. Column maintenance or replacement could be considered. Supervision may be consulted for technical support.

#### 9.2.4.5 Initial Calibration Verification

The calibration must be verified after the initial calibration with a second source standard. An LCS may be evaluated as an ICV. The initial calibration verification must meet 70-130% of initial calibration.

**Corrective Action:** If initial calibration verification criteria cannot be met, cause investigation must be initiated. Standard preparation and expiration must be checked. New calibration standards may need to be prepared. Column maintenance or replacement and source maintenance could be considered. Supervision may be consulted for technical support. Compounds associated with ICV failures are qualified.

### 9.2.5 Continuing Calibration Verification

The calibration must be verified at the beginning of each twelve-hour analytical period prior to any sample analysis by analysis of a mid-range calibration standard. The concentration used for the continuing calibration standard can be varied from the mid-point concentration at least one time per year. For method 8260B, the percent difference (or % drift, if a linear regression was used) from the calibration for the CCCs must be  $<20\%$  and the minimum response factors for the SPCCs must meet the same criteria listed for initial calibration. For SC-UST samples, all oxygenates must pass  $\pm 30\%$  criteria. For remaining compounds, 90% must pass  $\pm 30\%$  and not exceed  $\pm 50\%$ .

Method 8260D requires that 80% of all compounds fall within  $\pm 20\%$  of their expected values. Target analytes that do not meet the CCV criteria and are reported in the associated samples must be qualified to indicate the reported concentrations are potentially estimated

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or biased values. In cases where compounds fail low, they may be reported as non-detects if it can be demonstrated that there was adequate sensitivity to detect the compound at the reporting limit by evaluating a standard at the reporting limit prior to analysis. The compound must be detected at the quantitation limit to proceed with analysis.

Internal standard areas must be within -50% to +100% from the mid-point standard of the most recent initial calibration. Internal standard retention times must be within 30 seconds from the mid-point standard of the most recent initial calibration. The ICV must also be evaluated for these IS criteria when a CCV is not run.

#### **Corrective Action**

The CCV may be reanalyzed for failing compounds. If the CCV fails twice, corrective maintenance may be performed. If maintenance fails to bring CCV within acceptance criteria, run an initial calibration. Supervision may be consulted for technical support

For method 8260B, the remaining compounds that are not CCC or SPCC specific compounds must be evaluated in the Continuing Calibration report for acceptability. Excessive failures of +/- 20% recoveries may indicate the need for recalibration.

### **9.3 Sample Preparation**

All samples and standards must be allowed to warm to room temperature before analysis.

#### **9.3.1 Water Samples prepared by EPA Method 5030B**

Water samples do not require any sample preparation unless they require a dilution. Prior to the first analysis of a sample, a decision to dilute may be based on historical results or sample screening. If a dilution is not required, scan the vial to depletion and then place the sample vial in the autosampler. To minimize system contamination and maximize production it is not uncommon to run samples based off of their compounds list rather than run blanks as clean-ups as this does not compromise data integrity.

##### **9.3.1.1 Sample Dilution (if required)**

Dilutions will be conducted using volumetric flasks. Select the volumetric flask that will allow for the necessary dilution. Intermediate dilutions may be necessary for extremely high dilutions. Add slightly less OFW to the flask than the volumetric capacity. Inject the proper aliquot of sample into the flask. Dilute the sample to the mark with OFW. Cap the flask and invert three times. Repeat above procedure for additional dilutions. Fill a clean vial with diluted sample and place it in the autosampler for analysis.

##### **9.3.1.2 Verification of Preservative**

Verify and document that all samples are properly preserved with HCl by testing the remaining sample in the VOA vial after analysis or dilution with pH paper. The pH must be <2. Document results in the run log report. Footnote any sample not meeting the pH requirement.

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### 9.3.2 Soil/Solid Samples prepared by EPA Method 5035/5030B

#### 9.3.2.1 High Concentration Soil/Solid Samples

- **Methanol-preserved Samples**  
 Prepare dilutions of these samples by removing a measured volume of the methanol with a gas-tight syringe and add to a 50mL volumetric flask filled with OFW water. Bring to volume, invert 2-3 times, then transfer sample to 40mL vial. Place the vial in the autosampler for analysis.
- **Unpreserved Samples**  
 Weigh 10g of the unpreserved sample into a clean 40 mL vial. Add 10 mL of P&T MeOH, cap the vial and vortex. Remove a measured volume of the MeOH with a gas-tight syringe and add to a 50 mL volumetric flask filled with OFW water. Bring to volume, invert 2-3 times, and then transfer the sample to a 40 mL vial. Place the vial in the autosampler for analysis. These samples must be qualified on the final report.

### 9.4 QC Sample Preparation

#### 9.4.1 Method Blank

- 9.4.1.1 **Water Samples** – Fill a clean 40-mL vial (or equivalent) with OFW.
- 9.4.1.2 **High Concentration Soil/Solid Samples** – Use a clean 40-mL vial with 5 mL OFW and 5 g of Ottawa sand. Methanol from the laboratory would not represent methanol from vendor samples kits.

#### 9.4.2 LCS

- 9.4.2.1 **Water Samples** – Fill a clean 100-mL volumetric flask with 90 mL OFW. Spike the flask with 200 µL of the 8260 QC solution and fill to the mark with OFW. Transfer to clean 40-mL vials. In addition, an LCS may be prepped in a 50 mL volumetric flask with 49.9 mL of OFW and 100 µL of 8260 QC solution.
- 9.4.2.2 **Soil/Solid Samples** – Fill a clean 100-mL volumetric flask with 90 mL OFW. Spike the flask with 50 µL of the 8260 EZ Soil QC solution and fill to the mark with OFW. Transfer to clean 40-mL vials.  
  
 In addition, an LCS may be prepped in a 50 mL volumetric flask with 49.9 mL of OFW and 25 µL of 8260 EZ Soil QC solution.

#### 9.4.3 MS and MSD

- 9.4.3.1 **Water Samples** – Select an environmental sample. Spike the vial with 36 µL of the appropriate spike solution. Use the 8260 QC Standard.
- 9.4.3.2 **Soil/Solid Samples** – Select an environmental sample from the analytical batch. Spike the vial with 9 µL of the appropriate spike solution. Use the 8260 EZ Soil Solution.

#### 9.4.4 Sample Duplicates

Sample duplicates must be prepared the using the same procedure as the original sample.

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## 9.5 Analysis

### 9.5.1 Example Analytical Sequence

The typical batch for sample analysis can include the following. 5 mL of each sample, standard and QC standard are purged.

CCAL/BFB Standard

Laboratory Control Standard

Method Blank

Up to 20 Samples

Matrix Spike

Duplicate (Sample Duplicate or MSD)

One 12-hour tune may allow for the analysis of more than one batch.

## 10.0 DATA ANALYSIS AND CALCULATIONS

### 10.1 Qualitative Identification

#### 10.1.1 Tentatively Identified Compounds (TICS)

**10.1.1.1** For some samples, identification may be desired for non-target compounds. A mass spectral library search may be conducted to attempt assignment of tentative identifications. Only after visual comparison of sample spectra with the nearest library searches may the analyst assign a tentative identification. Use the following guidelines for making tentative identifications.

**10.1.1.2** Relative intensities of major ions in the reference spectrum (ions greater than 10% of the most abundant ion) are present in the sample spectrum.

**10.1.1.3** The relative intensities of the major ions agree within  $\pm 20\%$ .

**10.1.1.4** Molecular ions present in the reference spectrum are present in the sample spectrum.

**10.1.1.5** Ions present in the sample spectrum but not in the reference spectrum are reviewed for possible background contamination or presence of co-eluting compounds.

**10.1.1.6** Ions present in the reference spectrum but not in the sample spectrum are reviewed for possible subtraction from the sample spectrum because of background contamination or co-eluting peaks. Data system library reduction programs can sometimes create these discrepancies.

#### 10.1.2 Manual Integration

Manual changes to automated integration is called manual integration. Manual integration is sometimes necessary to correct inaccurate automated integrations but must never be used to meet QC criteria or to substitute for proper instrument maintenance and/or method

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set-up. To assure that all manual integrations are performed consistently and are ethically justified, all manual integrations must be performed, reviewed, and recorded in accordance with corporate SOP ENV-SOP-CORQ-0006, *Manual Integration*.

### 10.1.3 Retention Time Comparison

The retention time (RT) of the sample component must be within  $\pm 10$  seconds of the RT of the component in the calibration verification standard. Extracted Ion Current Plots (EICPs) may be used to provide a more reliable assignment of retention time in the presence of coeluting components. The retention times are updated to the method using the calibration standards. The RTs must not be updated based on continuing calibration verifications.

### 10.1.4 Mass Spectrum Comparison

The characteristic ions from the reference mass spectrum are defined as the three ions of greatest relative intensity, or any ions over 30% relative intensity if less than three such ions occur in the reference spectrum. Compounds are identified as present when the following criteria are met.

**10.1.4.1** The intensities of the characteristic ions of a compound maximize in the same scan or within one scan of each other. Selection of a peak by a data system target compound search routine where the search is based on the presence of a target chromatographic peak containing ions specific for the target compound at a compound-specific retention time will be accepted as meeting this criterion.

**10.1.4.2** The relative intensities of the characteristic ions agree within 30% of the relative intensities of these ions in the reference spectrum.

**10.1.4.3** Structural isomers that produce very similar mass spectra will be identified as individual isomers if they have sufficiently different GC retention times. Sufficient GC resolution is achieved if the height of the valley between two isomer peaks is less than 25% of the sum of the two peak heights. Otherwise, structural isomers are identified as isomeric pairs.

**10.1.4.4** Identification is hampered when sample components are not resolved chromatographically and produce mass spectra containing ions contributed by more than one analyte. When gas chromatographic peaks obviously represent more than one sample component (i.e., a broadened peak with co-eluter(s) or a valley between two or more maxima), appropriate selection of analyte spectra and background spectra is important.

## 10.2 Quantitative Identification

### 10.2.1 Concentration

The GC/MS data system will calculate the concentration of each analyte as  $\mu\text{g/L}$ . For water samples, no further calculations are necessary unless a dilution of the sample has been analyzed. For soil/solid samples, calculate the mass of the sample used and enter this result into Epic Pro.

$$\text{Soil/Solid Sample Mass (g)} = \text{Mass vial \& Sample (g)} - \text{Tare mass of vial (g)}$$

If the initial analysis of the sample or a dilution of the sample has a concentration that exceeds the calibration range, the sample must be analyzed at a higher dilution. All

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dilutions will keep the response of the major constituents in the upper half of the linear range of the curve.

### 10.2.2 Quality Control Results

Calculate recoveries for surrogate compounds in all samples, spiked compounds in LSC and MS/MSD samples, and Relative Percent Differences (RPD) for duplicate and MS/MSD samples. Calculations can be referenced in Section 10.3. The LIMS system calculates QC results when data is unloaded to EPIC Pro. All quality control results must be reviewed for acceptance criteria.

## 10.3 Calculations

**10.3.1** The response factor (RF) for initial calibration curves is calculated as follows:

$$RF = \frac{A_x C_{is}}{A_{is} C_x}$$

Where:  $A_x$  = Area of the characteristic ion for the compound being measured.

$A_{is}$  = Area of the characteristic ion for the specific internal standard.

$C_{is}$  = Concentration of the specific internal standard (mg/L).

$C_x$  = Concentration of the compound being measured (mg/L). The average RF must be calculated and recorded for each compound

**10.3.2** Using the RFs from the initial calibration, calculate the percent relative standard deviation (%RSD) for each compound for the continuing calibration verification. The percent RSD is calculated following equation:

$$\%RSD = \frac{SD}{\bar{X}} \times 100$$

Where: RSD = Relative standard deviation.

SD = Standard deviation of average RFs for a compound

$\bar{X}$  = Mean of 5 initial RFs for a compound

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**10.3.3** Refer to the Pace Analytical Quality Manual for initial calibration curve formulas.

**10.3.4 % Error**

$$\% \text{ Error} = \frac{x_i - x'_i}{x_i} \times 100$$

Where:  $x'_i$  = Measured amount of analyte at calibration level I, in mass or concentration units

$x_i$  = True amount of analyte at calibration level I, in mass or concentration units.

**10.3.5** Calculate the concentration of each identified analyte in the sample as follows:

**10.3.5.1 On-Column Concentration**

$$\text{Concentration } (\mu\text{g/L}) = \frac{(A_x)(I_s)}{(A_{is})(RRF)}$$

Where:

$A_x$  = Area of characteristic ion for compound being measured.

$I_s$  = Concentration of internal standard injected ( $\mu\text{g/L}$ ).

$A_{is}$  = Area of characteristic ion for the internal standard.

$RRF$  = Average Relative Response factor for compound being measured.

**10.3.5.2 Aqueous Sample Concentration**

$$\text{Concentration } (\mu\text{g/L}) = (OC)(DF) \frac{(VT)}{(VO)}$$

Where:

$OC$  = On-Column concentration ( $\mu\text{g/L}$ )

$DF$  = Dilution Factor

$V_T$  = Volume Purged (L)

$V_O$  = Volume of sample (L)

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**10.3.5.3 Solid Sample Concentration**

$$\text{Concentration } (\mu\text{g/Kg}) = (OC)(DF) \frac{(VT)}{(VO)}$$

Where:

 OC = On-Column concentration ( $\mu\text{g/L}$ )

DF = Dilution Factor

 $V_T$  = Volume Purged (L)

 $V_O$  = Mass of sample (Kg)

**10.3.6 Calculate Quality Control as follows:**
**10.3.6.1 Surrogate Recovery**

$$\% \text{ Recovery} = \frac{\text{Final Conc.}}{\text{True Value}} \times 100\%$$

**10.3.6.2 LCS Recovery**

$$\% \text{ Recovery} = \frac{\text{Final Conc.}}{\text{True Value}} \times 100\%$$

**10.3.6.3 Matrix Spike Recovery**

$$\% \text{ Recovery} = \frac{\text{Final MS Conc.} - \text{Final Parent Conc.}}{\text{True Value}} \times 100\%$$

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### 10.3.6.4 Relative Percent Difference (RPD) – Duplicate Samples

$$\text{RPD} = \frac{\text{Difference}}{\text{Mean}} \times 100\% = \frac{(\text{Conc. 1} - \text{Conc. 2})}{(\text{Conc. 1} + \text{Conc. 2}) / 2} \times 100\%$$

10.3.7 See the Laboratory Quality Assurance Manual for equations for common calculations.

## 11.0 QUALITY CONTROL AND METHOD PERFORMANCE

### 11.1 Quality Control

The following QC samples are prepared and analyzed with each batch of samples. Refer to Appendix B for acceptance criteria and required corrective action.

QC Item	Frequency
Method Blank (MB)	One must be analyzed with each batch of 20 samples.
Laboratory Control Sample (LCS)	One must be analyzed with each batch of 20 samples.
Matrix Spike (MS)	One must be analyzed with each batch of 20 samples.
Matrix Spike Duplicate (MSD) / Sample Duplicate	An MS/MSD pair or a sample duplicate must be run with every 20 samples.
Surrogate	Must be added to all samples, spikes, control samples and method blanks, prior to analysis.
Internal Standard	Every field sample, standard and QC sample.

#### 11.1.1 Internal Standard Responses and Retention Times

Internal standard areas must be within the range of –50% to +100% and retention times must be within 30 seconds compared to the most recent ICAL.

**Corrective Action:** If these criteria are not met, check system parameters, identify and correct likely causes, and re-run the samples.

If the IS results appear out of control due to sample matrix, re-run the sample to confirm the matrix interference. Qualify the IS failure.

IO - The internal standard response was outside the laboratory acceptance limits confirmed by reanalysis. The results reported are from the most QC compliant analysis.

All IS Failures must be qualified with the most appropriate footnote. Samples that cannot be rerun must be footnoted to that effect.

For samples with all internal standards outside of limits that cannot be rerun due to limited sample volume or holding time exceedances:

IQ- The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

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IU- The internal standard recoveries associated with this sample exceed the upper control limit. The reported results should be considered estimated values.

For samples that have limited IS failures the following footnotes may be used.

IR -The internal standard recovery associated with this result exceeds the upper control limit. The reported results should be considered an estimated value.

IS- The internal standard response is below criteria. Results may be biased high.

## 11.2 Instrument QC

The following Instrument QC checks are performed. Refer to Appendix B for acceptance criteria and required corrective action.

QC Item	Frequency
Tune	Prior to initial calibration for 8260D. At the beginning of each analytical period for 8260B.
Initial Calibration	At instrument set up, after CCV failure.
Initial Calibration Verification	After Each ICAL.
Continuing Calibration Verification	Must be verified at the beginning of each twelve-hour analytical period.
RT Window	Once per ICAL and at the beginning of the analytical period.
Relative Retention Time	Verified for each analyte compared to the retention time in the continuing calibration verification.

## 11.3 Method Performance

### 11.3.1 Method Validation

#### 11.3.1.1 Detection Limits

Detection limits (DL) and limits of quantitation (LOQ) are established at initial method setup and verified on an on-going basis thereafter. Refer to Pace ENV corporate SOP ENV-SOP-CORQ-0011 Method Validation and Instrument Verification and to the laboratory's SOP ENV-SOP-CAR-0021 *Determination of Detection and Quantitation Limits* for these procedures.

11.3.2 Periodic performance testing (PT) samples are analyzed to demonstrate continuing competence.

## 11.4 Analyst Qualifications and Training

Employees that perform any step of this procedure must have a completed Read and Acknowledgment Statement for this version of the SOP in their training record. In addition, prior to unsupervised (independent) work on any client sample, analysts that prepare or analyze samples must have successful initial demonstration of capability (IDOC) and must successfully demonstrate on-going proficiency on an annual basis. Successful means the initial and on-going DOC met criteria, documentation of the DOC is complete, and the DOC record is in the employee's training file. Refer to laboratory SOP ENV-SOP-CAR-0057 *Training and Employee Orientation* for more information.

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## 12.0 DATA REVIEW AND CORRECTIVE ACTION

### 12.1 Data Review

Pace's data review process includes a series of checks performed at different stages of the analytical process by different people to ensure that SOPs were followed, the analytical record is complete and properly documented, proper corrective actions were taken for QC failure and other nonconformance(s), and that test results are reported with proper qualification.

The review steps and checks that occur as employee's complete tasks and review their own work is called primary review.

All data and results are also reviewed by an experienced peer or supervisor. Secondary review is performed to verify SOPs were followed, that calibration, instrument performance, and QC criteria were met and/or proper corrective actions were taken, qualitative ID and quantitative measurement is accurate, all manual integrations are justified and documented in accordance with the Pace ENV's SOP for manual integration, calculations are correct, the analytical record is complete and traceable, and that results are properly qualified.

A third-level review, called a completeness check, is performed by reporting or project management staff to verify the data report is not missing information and project specifications were met.

Refer to laboratory SOP ENV-SOP-CAR-0058 *Data Review Process* for specific instructions and requirements for each step of the data review process.

### 12.2 Corrective Action

Corrective action is expected any time QC or sample results are not within acceptance criteria. If corrective action is not taken or was not successful, the decision/outcome must be documented in the analytical record. The primary analyst has primary responsibility for taking corrective action when QA/QC criteria are not met. Secondary data reviewers must verify that appropriate action was taken and/or that results reported with QC failure are properly qualified.

Corrective action is also required when carryover is suspected and when results are over range.

Samples analyzed after a high concentration sample must be checked for carryover and reanalyzed if carryover is suspected. Carryover is usually indicated by low concentration detects of the analyte in successive samples analyzed after the high concentration sample.

Sample results at concentrations above the upper limit of quantitation must be diluted and reanalyzed. The result in the diluted samples should be within the upper half of the calibration range. Results less than the mid-range of the calibration indicate the sample was over diluted and analysis should be repeated with a lower level of dilution. If dilution is not performed, any result reported above the upper range is considered a qualitative measurement and must be qualified as an estimated value.

Refer to Appendix B for a complete summary of QC, acceptance criteria, and recommended corrective actions for QC associated with this test method.

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### 13.0 POLLUTION PREVENTION AND WASTE MANAGEMENT

Pace proactively seeks ways to minimize waste generated during our work processes. Some examples of pollution prevention include but are not limited to: reduced solvent extraction, solvent capture, use of reusable cycletainers for solvent management, and real-time purchasing.

The EPA requires that laboratory waste management practice to be conducted consistent with all applicable federal and state laws and regulations. Excess reagents, samples and method process wastes must be characterized and disposed of in an acceptable manner in accordance with Pace's Chemical Hygiene Plan / Safety Manual.

### 14.0 MODIFICATIONS

A modification is a change to a reference test method made by the laboratory. For example, changes in stoichiometry, technology, quantitation ions, reagent or solvent volumes, reducing digestion or extraction times, instrument runtimes, etc. are all examples of modifications. Refer to Pace ENV corporate SOP ENV-SOP-CORQ-0011 *Method Validation and Instrument Verification* for the conditions under which the procedures in test method SOPs may be modified and for the procedure and document requirements.

- 14.1 General instrument settings are outlined in Addendum C. However, due to advancing technologies and variations from instrument to instrument, instrument specific settings are located in their respective maintenance logbooks.
- 14.2 Pre-made stock standards are purchased.
- 14.3 The GCMS systems scan from 35-270 am rather than the method specified 20-260.
- 14.4 Samples are frequently provided preserved with HCl to a pH of less than 2 for full list analysis that request Acrolein and Acrylonitrile. Acid preservation may not be appropriate for reactive compounds such as Styrene, Vinyl Chloride and Chloroethyl vinyl ether. Appropriate footnotes are added to final reports for these compounds.
- 14.5 Ethylene Oxide is reported as an estimated value based on a single reporting level verification standard when requested.
- 14.6 Samples may be reported under the 8260 screening Acode with qualification that method criteria has not been met for the reported results.
- 14.7 Ethanol and 1,4-dioxane do not meet default minimum response factor requirements for some program specifications.
- 14.8 BFB tuning criteria taken from Table 4 of EPA 624.1. This alternate tuning criteria is allowable per 8260D section 11.3.1.2.

### 15.0 RESPONSIBILITIES

Pace ENV employees that perform any part this procedure in their work activities must have a signed Read and Acknowledgement Statement in their training file for this version of the SOP. The employee

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is responsible for following the procedures in this SOP and handling temporary departures from this SOP in accordance with Pace's policy for temporary departure.

Pace supervisors/managers are responsible for training employees on the procedures in this SOP and monitoring the implementation of this SOP in their work area.

## 16.0 ATTACHMENTS

Not applicable to this SOP.

## 17.0 REFERENCES

- 17.1 USEPA, SW-846, Method 8260B, "Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS), December 1996.
- 17.2 USEPA, SW-846, Method 8260D, "Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS), June 2018.
- 17.3 USEPA, SW-846, Method 8000D, "Determinative Chromatographic Separations", Rev. 4 July 2014.
- 17.4 USEPA, SW-846, Method 5035, "Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples. December 1996.
- 17.5 USEPA, SW-846, Method 5030B, "Purge and Trap for Aqueous Samples," December 1996.
- 17.6 USEPA, SW-846, Method 5000, "Sample Preparation for Volatile Organic Compounds". December 1996.

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## 18.0 REVISION HISTORY

This Version: ENV-SOP-HUN1-0020-rev.04

Section	Description of Change
6	Clarified that sample preservation is checked post-analysis.
8.2.3	Removed separate prep procedure details for soil calibration.

This document supersedes the following document(s):

Document Number	Title	Version
ENV-SOP-HUN1-0020	The Determination of Volatile Organics by Gas Chromatography/Mass Spectrometry	00 - 03
S-CHR-O-023	The Determination of Volatile Organics by Gas Chromatography/Mass Spectrometry	00 - 15

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**Appendix A: Target Analyte List and Routine LOQ**
**Table 1: Routine Analyte List and Limits of Quantitation (LOQ)<sup>1</sup>**

Analyte	Water-Reg (µg/L)	Water-Low (µg/L)	Soil (µg/kg)
1,1,1,2-Tetrachloroethane	5	1	5
1,1,1-Trichloroethane	5	1	5
1,1,2,2-Tetrachloroethane	5	1	5
1,1,2-Trichloroethane	5	1	5
1,1,2-Trichlorotrifluoroethane	5	1	5
1,1-Dichloroethane	5	1	5
1,1-Dichloroethene	5	1	5
1,1-Dichloropropene	5	1	5
1,2,3-Trichlorobenzene	5	1	5
1,2,3-Trichloropropane	5	1	5
1,2,3-Trimethylbenzene	5	1	5
1,2,4-Trichlorobenzene	5	1	5
1,2,4-Trimethylbenzene	5	1	5
1,2-Dibromo-3-chloropropane	5	5	5
1,2-Dibromoethane (EDB)	5	1	5
1,2-Dichlorobenzene	5	1	5
1,2-Dichloroethane	5	1	5
1,2-Dichloroethene (Total)	5	1	5
1,2-Dichloropropane	5	1	5
1,3,5-Trimethylbenzene	5	1	5
1,3-Dichlorobenzene	5	1	5
1,3-Dichloropropane	5	1	5
1,4-Dichlorobenzene	5	1	5
1,4-Dioxane (p-Dioxane)	150	150	150
2,2-Dichloropropane	5	1	5
2-Butanone (MEK)	10	5	100
2-Chloroethylvinyl ether	10	10	
2-Chlorotoluene	5	1	5
2-Hexanone	10	5	50
3,3-Dimethyl-1-Butanol	100	100	100
4-Chlorotoluene	5	1	5
4-Methyl-2-pentanone (MIBK)	10	5	50
Acetone	25	25	100
Acetonitrile	50	50	50
Acrolein	100	10	100

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Analyte	Water-Reg (µg/L)	Water-Low (µg/L)	Soil (µg/kg)
Acrylonitrile	100	10	100
Allyl chloride	50	2	50
Benzene	5	1	5
Bromobenzene	5	1	5
Bromochloromethane	5	1	5
Bromodichloromethane	5	1	5
Bromoform	5	1	5
Bromomethane	10	2	10
Carbon disulfide	10	2	10
Carbon tetrachloride	5	1	5
Chlorobenzene	5	1	5
Chloroethane	10	1	10
Chloroform	5	1	5
Chloromethane	5	1	10
Chloroprene	5	5	10
cis-1,2-Dichloroethene	5	1	5
cis-1,3-Dichloropropene	5	1	5
cis-1,4-Dichloro-2-butene	5	1	5
Cyclohexane	5	1	5
Cyclohexanone	500	500	250
Dibromochloromethane	5	1	5
Dibromomethane	5	1	5
Dichlorodifluoromethane	5	1	10
Diethyl ether (Ethyl ether)	5	1	5
Diisopropyl ether	5	1	5
Ethanol	200	200	200
Ethyl acetate	100	20	100
Ethyl methacrylate	5	1	5
Ethylbenzene	5	1	5
Ethylene oxide	10	50	10
Ethyl-tert-butyl ether	10	10	10
Hexachloro-1,3-butadiene	5	1	5
Iodomethane	20	20	50
Isobutanol	100	100	100
Isopropylbenzene (Cumene)	5	1	5
m&p-Xylene	10	2	10
Methacrylonitrile	50	10	50
Methyl acetate	10	10	10

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Analyte	Water-Reg (µg/L)	Water-Low (µg/L)	Soil (µg/kg)
Methyl methacrylate	5	2	5
Methylcyclohexane	10	10	10
Methylene Chloride	5	5	20
Methyl-tert-butyl ether	5	1	5
Naphthalene	5	1	5
n-Butylbenzene	5	1	5
n-Hexane	5	1	5
n-Propylbenzene	5	1	5
o-Xylene	5	1	5
Pentachloroethane	5	50	5
p-Isopropyltoluene	5	1	5
Propionitrile	50	20	50
sec-Butylbenzene	5	1	5
Styrene	5	1	5
tert-Amyl Alcohol	100	100	100
tert-Amylmethyl ether	10	10	10
tert-Butyl Alcohol	100	100	100
tert-Butyl Formate	50	50	50
tert-Butylbenzene	5	1	5
Tetrachloroethene	5	1	5
Tetrahydrofuran	50	10	50
Toluene	5	1	5
Total BTEX	5	1	5
trans-1,2-Dichloroethene	5	1	5
trans-1,3-Dichloropropene	5	1	5
trans-1,4-Dichloro-2-butene	5	1	10
Trichloroethene	5	1	5
Trichlorofluoromethane	10	1	5
Vinyl acetate	10	2	50
Vinyl chloride	5	1	10
Xylene (Total)	5	1	10

<sup>1</sup> Values in place as of effective date of this SOP. LOQ are subject to change. For the most up to date LOQ, refer to the LIMS or contact the laboratory.

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**Table 2: Quantitation and Qualifier Ions**

Compound Name	CAS #	Quant Ion	Qualifier Ions		
1,1,1,2-Tetrachloroethane	630-20-6	131	133		
1,1,1-Trichloroethane	71-55-6	97	99	61	
1,1,1,2-Tetrachloroethane	79-34-5	83	85	131	
1,1,2-Trichloroethane	79-00-5	97	83	61	
1,1,2-Trichlorotrifluoroethane	76-13-1	101	151	103	
1,1-Dichloroethane	75-34-3	63	65		
1,1-Dichloroethene	75-35-4	61	96		
1,1-Dichloropropene	563-58-6	75	110	77	
1,2,3-Trichlorobenzene	87-61-6	180	182	145	
1,2,3-Trichloropropane	96-18-4	75	77		
* 1,2,3-Trimethylbenzene	526-73-8	105	120		
1,2,4-Trichlorobenzene	120-82-1	180	182	145	
1,2,4-Trimethylbenzene	95-63-6	105	120		
1,2-Dibromo-3-chloropropane	96-12-8	151	155	75	
1,2-Dibromoethane (EDB)	106-93-4	107	109		
1,2-Dichlorobenzene	95-50-1	146	148	111	
1,2-Dichloroethane	107-06-2	62	64		
1,2-Dichloroethene (Total)	540-59-0				
1,2-Dichloropropane	78-87-5	63	62	76	
1,3,5-Trimethylbenzene	108-67-8	105	120		
1,3-Dichlorobenzene	541-73-1	146	111	148	
1,3-Dichloropropane	142-28-9	76	78		
1,4-Dichlorobenzene	106-46-7	146	148	111	
1,4-Dioxane (p-Dioxane)	123-91-1	88	58	57	

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Compound Name	CAS #	Quant Ion	Qualifier Ions		
2,2-Dichloropropane	594-20-7	77	79	97	
2-Butanone (MEK)	78-93-3	43	72		
2-Chloroethylvinyl ether	110-75-8	63	65	106	
2-Chlorotoluene	95-49-8	91	126		
2-Hexanone	591-78-6	43	58	41	
* 3,3-Dimethyl-1-Butanol	624-95-3	69	56	100	
4-Chlorotoluene	106-43-4	91	126		
4-Methyl-2-pentanone (MIBK)	108-10-1	43	58	85	
Acetone	67-64-1	43	58		
Acetonitrile	75-05-8	41	40	39	
Acrolein	107-02-8	56	55		
Acrylonitrile	107-13-1	53	52	51	
Allyl chloride	107-05-1	76	41	39	
Benzene	71-43-2	78	77		
Bromobenzene	108-86-1	156	158	51	
Bromochloromethane	74-97-5	130	128		
Bromodichloromethane	75-27-4	83	85	47	
Bromoform	75-25-2	173	175	254	
Bromomethane	74-83-9	94	96		
Carbon disulfide	75-15-0	76	78		
Carbon tetrachloride	56-23-5	117	119		
Chlorobenzene	108-90-7	112	77	114	
Chloroethane	75-00-3	64	66		
Chloroform	67-66-3	83	85		
Chloromethane	74-87-3	50	52		

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Compound Name	CAS #	Quant Ion	Qualifier Ions		
Chloroprene	126-99-8	53	88	90	
cis-1,2-Dichloroethene	156-59-2	61	96	98	
cis-1,3-Dichloropropene	10061-01-5	75	39	77	
cis-1,4-Dichloro-2-butene	1476-11-5	77	53	88	
* Cyclohexane	110-82-7	56	84	41	
* Cyclohexanone	108-94-1	55	98		
Dibromochloromethane	124-48-1	129	127		
Dibromomethane	74-95-3	174	93	95	
Dichlorodifluoromethane	75-71-8	85	87		
Diethyl ether (Ethyl ether)	60-29-7	59	74	45	
Diisopropyl ether	108-20-3	45	43		
Ethanol	64-17-5	45	46		
Ethyl acetate	141-78-6	43	61	70	
Ethyl methacrylate	97-63-2	41	69	39	
Ethylbenzene	100-41-4	91	106		
Ethylene oxide	75-21-8				
Ethyl-tert-butyl ether	637-92-3	59	87	41	
Hexachloro-1,3-butadiene	87-68-3	235	227	223	
Iodomethane	74-88-4	142	127	141	
Isobutanol	78-83-1	43	42	41	
Isopropylbenzene (Cumene)	98-82-8	105	120		
m&p-Xylene	1330-20-7	91	51		
Methacrylonitrile	126-98-7	41	39	67	
* Methyl acetate	79-20-9	74	43		
Methyl methacrylate	80-62-6	41	69	100	

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Compound Name	CAS #	Quant Ion	Qualifier Ions		
* Methylcyclohexane	108-87-2	55	83	98	
Methylene Chloride	75-09-2	49	84	86	
Methyl-tert-butyl ether	1634-04-4	73	41		
Naphthalene	91-20-3	128	127	51	
n-Butylbenzene	104-51-8	91	92	134	
* n-Hexane	110-54-3	57	56		
n-Propylbenzene	103-65-1	91	120		
o-Xylene	95-47-6	106	105		
Pentachloroethane	76-01-7	167	130	132	
p-Isopropyltoluene	99-87-6	119	134		
Propionitrile	107-12-0	54	52	51	
sec-Butylbenzene	135-98-8	105	134		
Styrene	100-42-5	104	78		
* tert-Amyl Alcohol	75-85-4	59	73		
tert-Amylmethyl ether	994-05-8	73	55	87	
tert-Butyl Alcohol	75-65-0	59			
* tert-Butyl Formate	762-75-4	59	57	56	
tert-Butylbenzene	98-06-6	119	134		
Tetrachloroethene	127-18-4	166	164	131	
* Tetrahydrofuran	109-99-9	42	72	71	
Toluene	108-88-3	91	92		
Total BTEX					
trans-1,2-Dichloroethene	156-60-5	61	98	63	
trans-1,3-Dichloropropene	10061-02-6	75	39	77	
trans-1,4-Dichloro-2-butene	110-57-6	53	42	124	

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Compound Name	CAS #	Quant Ion	Qualifier Ions		
Trichloroethene	79-01-6	132	130		
Trichlorofluoromethane	75-69-4	101	103		
Vinyl acetate	108-05-4	43	87		
Vinyl chloride	75-01-4	62	64		
Xylene (Total)	1330-20-7				
1,2-Dichloroethane-d4 (Surr)	17060-07-0	65	102		
1,4-Dichlorobenzene-d4 (IS)	3855-82-1	152	150		
1,4-Difluorobenzene (IS)	540-36-3	114			
4-Bromofluorobenzene (Surr)	460-00-4	95	174	176	
Chlorobenzene-d5 (IS)	3114-55-4	119			
Dibromofluoromethane (Surr)	75-01-4	111	113	192	
Pentafluorobenzene (IS)	2037-26-5	168			
Toluene-d8 (Surr)	1868-53-7	98	100		

\* Additional compound outside the scope of EPA method 8260

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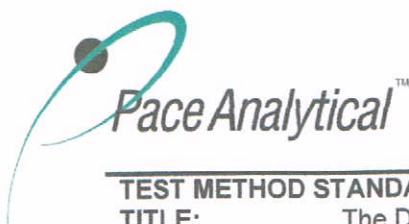
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**Appendix B: QC Summary**

QC Item	Frequency	Acceptance Criteria	Corrective Action	Qualification
ICAL	At instrument set up, after CCV failure	Must meet one of curve fit options presented in Section 9.2.4.	Identify and correct source of problem, repeat	None. Do not proceed with analysis
ICV	After Each ICAL	All analytes must be within 70 - 130% of the true value. (%R)	If initial calibration verification criteria cannot be met, cause investigation must be initiated. <i>Standard preparation and expiration</i> must be checked. New calibration standards may need to be prepared. Column maintenance or replacement and source maintenance could be considered. Supervision may be consulted for technical support.	Qualify analytes with ICV out of criteria.
RT Window Position (Daily)	Once per ICAL and at the beginning of the analytical window.	Retention times must be within 30 seconds compared to the most recent ICAL.	If these criteria are not met, check system parameters, identify and correct likely causes, and re-run the samples.	NA
RT Window Study	At method set-up and after major instrument maintenance	Window is $\pm 10$ seconds of the RT of the component in the calibration verification standard	NA	NA
CCV	The calibration must be verified at the beginning of each twelve-hour analytical period prior to any sample analysis by analysis of a mid-range calibration standard.	See section 9.2.5.	See Section 9.2.5 for required corrective actions based on circumstance.	Qualify analytes with CCV out of criteria.
Internal Standards	Every field sample, standard and QC sample.	Internal standard areas must be within the range of -50% to +100	If these criteria are not met, check system parameters, identify and correct likely causes, and re-run the samples.	Qualify outages and explain in case narrative. See section 11.0.
Surrogate	Surrogate compounds must be added to all samples, spikes, control samples and method blanks, prior to analysis as indicators of method accuracy.	Recovery limits are evaluated against current limits in the Target spike report and in EPIC PRO.	If these criteria are not met, check system parameters, identify and correct likely causes, and re-run the samples.	If recoveries appear out of control due to sample matrix, re-run the samples to confirm the matrix interference and report the results with an appropriate footnote. Sample results may be reported with high surrogate recoveries if there

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QC Item	Frequency	Acceptance Criteria	Corrective Action	Qualification
				are no hits for the target compounds and the surrogates are footnoted.
Method Blank		Must not contain any target analytes at or above the reporting limit. The method blank must be evaluated to ½ the reporting limit.	If the results are not acceptable, analyze a new method blank. If the problem persists, conduct maintenance to clean the analytical system.	Must be qualified for any hits above ½ the reporting limit. The method blanks may be footnoted and reported with samples that are non-detected for all compounds. The method blank and the samples must be footnoted for compounds that will be reported and were above the detection limit in the method blank.
LCS	One LCS must be analyzed with each batch of 20 samples. The LCS is spiked with all compounds included in the calibration.	Laboratory-based accuracy limits must be used for acceptance criteria. Data reported for South Carolina compliance monitoring to SCDEC must be evaluated using 70-130% for LCS control limits. Recovery limits are evaluated against current limits in EPIC PRO. Refer to the current revision of the Pace Analytical Quality Manual for the number of allowable exceedances.	If results are not acceptable, analyze a new LCS. If the problem persists, check the spiking solutions, and/or conduct system maintenance prior to running a new LCS. An acceptable LCS must be reported with sample results for the applicable batch.	Samples that are non-detected for target compounds may be reported and footnoted with a high LCS. Recoveries outside of QC limits must be qualified on the final report.
MS/MSD	One MS must be analyzed with each batch of 20 samples. Matrix Spikes are spiked with all the compounds included in the calibration. An MS/MSD pair or a sample duplicate must be run with every 20 samples.	Recovery limits are evaluated against current limits in EPIC PRO. For data reported to South Carolina Matrix Spikes are evaluated using 70-130% control limits.	If the results in the LCS are acceptable, the failures in the MS show matrix interference. Batches are not controlled on matrix spike QC.	Compounds reported outside of control limits must be footnoted.
Sample Duplicate	An MS/MSD pair or a sample duplicate must be run with every 20 samples.	RPD	If results are not acceptable, check for possible sample preparation problems and re-run if needed.	Report the results with an appropriate footnote.

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**TEST METHOD STANDARD OPERATING PROCEDURE**

**TITLE:** The Determination of Volatile Organics by Gas Chromatography/Mass Spectrometry  
**TEST METHOD** EPA 8260D, EPA 8260B, 5030B, 5035  
**ISSUER:** Pace ENV – Huntersville Quality – HUN1

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## Appendix C: Standard Instrument Parameters

Table 1a: Instrument Parameters - 8260 Water

Instrument ID	92MSV3	92MSV5	92MSV1	92MSV9	92MSV4
<b>GC Column</b>					
Type	Restek RTX-VMS	Restek RTX-VMS	Restek RTX-VMS	Restek RTX-VMS	Restek RTX-VMS
Length (m)	20	20	20	20	20
Diameter (mm ID)	18	18	18	18	18
Film Thickness (µm)	1	1	1	1	1
Carrier Gas	Helium	Helium	Helium	Helium	Nitrogen
<b>GC Operating Parameters</b>					
Injector Temperature (°C)	180	180	180	180	180
Detector Temperature (°C)	230	230	230	230	230
<b>GC Temperature Program</b>					
Initial Oven Temperature (°C)	50	50	50	50	50
Initial Hold (Min)	3.8	3.75	3.75	3.75	3.75
Temperature Ramp 1 (°C/min)	18	18	18	18	18
Temp Ramp 1 Final Temp(°C)	95	95	95	95	95
Temperature Ramp 2 (°C/min)	40	40	40	40	40
Final Temp(°C)	225	225	225	225	225
Final Hold (min)	1.50	1.5	1.5	1.5	1.5
Run Time (min)	11.1	11	11	11	11
Split Ratio	50:1	40:1	70:1	48:1	70:1
Column Flow (mL/min)	0.6	0.8	0.8	0.7	0.7

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Instrument ID	92MSV3	92MSV5	92MSV1	92MSV9	92MSV4
<b>GC/MS Parameters</b>					
Ionization Energy	70 eV	70 eV	69 eV	70 eV	70 eV
Scan Range	35-300	35-270	35-300	35-270	35-270
Scan Time	0.50	0.5	2.73	0.5	0.5
Threshold	150	150	150	150	150
Sampling #	3	3	3	3	3
<b>Sample Heater</b>					
Sample Heater Type	on-vessel	on-vessel	on-vessel	on-vessel	on-vessel
Pre Purge Time	0	0	0	0	0
Preheat Temp (°C)	0	0	0	0	0
Preheat Time	0	0	0	0	0
Purge Temp (°C)	on	on	on	on	on
	40	40	40	40	40
Bake Temp (°C)	on	on	on	on	on
	40	40	40	40	40
Initial Temp (°C)	40	40	40	40	40
	1 min hold	2 min hold	1 min hold	1 min hold	2 min hold
Ramp Rate (°C/min)	100	100	100	100	100
Final Temp(°C)	110	110	110	110	110

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Instrument ID	92MSV3	92MSV5	92MSV1	92MSV9	92MSV4
<b>Concentrator Parameters</b>					
Trap Ready	45	45	45	45	45
Mort Ready	39	39	39	39	39
Purge Gas	Helium	Helium	Nitrogen	Nitrogen	Hydrogen
Purge Flow (mL/min)	60	60	60	60	60
Purge Time (min)	6	6	6	6	6
Purge Temp (°C)	40	40	40	40	40
Dry Purge Temp	off	off	on	on	off
Dry Purge Flow (mL/min)	30	30	30	30	60
Dry Purge Time (min)	1.0	1.0	1	1	1
Desorb Pressure Control	on	on	on	on	on
	8	8	8	8	8
Desorb Flow Control	off	off	off	off	off
Desorb Preheat Temp (°C)	255	245	255	255	255
Desorb Temp (°C)	260	250	260	260	260
Desorb Time (min)	0.5	0.5	0.5	0.5	0.5
Trap Bake Temp (°C)	260	260	260	260	260
Mort Bake Temp (°C)	210	210	210	210	210
Bake Flow Rate (mL/min)	80	80	80	80	80
Bake Time (min)	5.0	5.0	5	5	4.5
Bake Cycles	1	1	1	1	1

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**Table 1b: Instrument Parameters - 8260 Water**

Instrument ID	MSVA	MSVB	MSVD	MSVE
<b>GC Column</b>				
Type	Restek RTX-VMS	Restek RTX-VMS	Restek RTX-VMS	Restek RTX-VMS
Length (m)	20	20	20	20
Diameter (mm ID)	18	18	18	18
Film Thickness (µm)	1	1	1	1
Carrier Gas	Helium	Helium	Helium	Helium
<b>GC Operating Parameters</b>				
Injector Temperature (°C)	180	180	180	180
Detector Temperature (°C)	230	230	230	230
<b>GC Temperature Program</b>				
Initial Oven Temperature (°C)	50	50	50	50
Initial Hold (Min)	3.75	3.75	3.75	3.75
Temperature Ramp 1 (°C/min)	18	18	18	18
Temp Ramp 1 Final Temp(°C)	95	95	95	95
Temperature Ramp 2 (°C/min)	40	40	40	40
Final Temp(°C)	225	225	225	225
Final Hold (min)	1.5	1.5	1.5	1.5
Run Time (min)	11	11	11	11
Split Ratio	100:1	80:1	60:1	60:1
Column Flow (mL/min)	0.7	0.7	0.7	0.7

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Instrument ID	MSVA	MSVB	MSVD	MSVE
<b>GC/MS Parameters</b>				
Ionization Energy	70 eV	70 eV	70 eV	70 eV
Scan Range	35-270	35-270	35-270	35-270
Scan Time	0.5	0.5	0.5	0.5
Threshold	150	150	150	150
Sampling #	3	3	3	3
<b>Sample Heater</b>				
Sample Heater Type	on-vessel	on-vessel	on-vessel	on-vessel
Pre Purge Time	0	0	0	0
Preheat Temp (°C)	0	0	0	0
Preheat Time	0	0	0	0
Purge Temp (°C)	on	on	on	on
	60	60	50	50
Bake Temp (°C)	on	on	on	on
	40	110	110	110
Initial Temp (°C)	40	110	110	110
	30 sec hold	3.5 min hold	3.5 min hold	3.5 min hold
Ramp Rate (°C/min)	100	100	100	100
Final Temp(°C)	110	40	40	40

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Instrument ID	MSVA	MSVB	MSVD	MSVE
<b>Concentrator Parameters</b>				
Trap Ready	45	35	35	35
Mort Ready	39	39	39	39
Purge Gas	Nitrogen	Nitrogen	Nitrogen	Nitrogen
Purge Flow (mL/min)	60	60	60	60
Purge Time (min)	6	6	6	6
Purge Temp (°C)	30	0	0	0
Dry Purge Temp	on	off	off	off
Dry Purge Flow (mL/min)	60	40	40	40
Dry Purge Time (min)	1	2	2	2
Desorb Pressure Control	on	on	on	on
	10	5	5	5
Desorb Flow Control	off	off	off	off
Desorb Preheat Temp (°C)	255	240	240	240
Desorb Temp (°C)	260	245	245	245
Desorb Time (min)	0.5	0.5	0.5	0.5
Trap Bake Temp (°C)	260	250	250	250
Mort Bake Temp (°C)	210	210	210	210
Bake Flow Rate (mL/min)	110	85	85	85
Bake Time (min)	5	4.5	4.5	4.5
Bake Cycles	1	1	1	1

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**Table 2: Instrument Parameters 8260 soil**

Instrument ID	92MSVB	92MSVC
<b>GC Column</b>		
Type	Restek RTX-VMS	Restek RTX-VMS
Length (m)	30	30
Diameter (mm ID)	25	25
Film Thickness (µm)	1.4	1.4
Carrier Gas	Helium	Helium
<b>GC Operating Parameters</b>		
Injector Temperature (°C)	180	180
Detector Temperature (°C)	250	250
<b>GC Temperature Program</b>		
Initial Oven Temperature (°C)	50	50
Initial Hold (Min)	3.75	3.75
Temperature Ramp 1 (°C/min)	18	18
Temp Ramp 1 Final Temp(°C)	95	95
Temperature Ramp 2 (°C/min)	40	40
Final Temp(°C)	225	225
Final Hold (min)	1.5	1.5
Run Time (min)	11	11
Split Flow	60:1	60:1
Column Flow (mL/min)	0.7	0.7

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Instrument ID	92MSVB	92MSVC
<b>GC/MS Parameters</b>		
Ionization Energy	70 eV	70 eV
Scan Range	35-350	35-350
Scan Time	0.5	0.5
Threshold	150	150
Sampling #	3	3
<b>Concentrator Parameters</b>		
Trap Ready	45	45
Mort Ready	39	39
Purge Gas	Helium	Helium
Purge Flow (mL/min)	60	60
Purge Time	6	6
Purge Temp (°C)	60	60
Dry Purge Temp	on	on
Dry Purge Flow (mL/min)	40	40
Dry Purge Time (min)	2.0	2.0
Desorb Pressure Control	on	on
	8	8
Desorb Flow Control	off	off
Desorb Preheat Temp (°C)	245	245
Desorb Temp (°C)	250	250
Desorb Time (min)	0.5	0.5
Trap Bake Temp (°C)	250	250
Mort Bake Temp (°C)	210	210
Bake Flow Rate (mL/min)	85	85

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Instrument ID	92MSVB	92MSVC
Bake Time (min)	4.5	4.5
Bake Cycles	1	1
<b>Autosampler Parameters</b>		
<b>General Setup Tab</b>		
Sample Loop Fill Time (sec)	7	20
Loop Equil. Time (sec)	5	5
Sample Transfer Time (sec)	5	5
Sample Loop Rinse Time (sec)	on	On
	10	10
Sample Loop Sweep Time (sec)	5	5
Conc. Desorb Time (sec)	30	30
# of Sparge Rinse Cycles	on	on
	1	1
Rinse Transfer Time (sec)	10	10
Rinse Drain Time (sec)	200	200
# of Foam Rinse Cycles	3	3
Conc. #1 Cycle Time (min)	0.0	0.0
Conc. #2 Cycle Time (min)	n/a	n/a
Water Heater Temp (°C)	25	85
<b>Internal Standard Tab</b>		
Conc. #1 IS#1 Volume (µL)	3	5
Conc. #2 IS #2 Volume (µL)	0.0	0.0
Sample Preheat Temp (°C)	0	0
Purge Time (min)	6.0	4.5
Purge Temp (°C)	60	40

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**Appendix D: BFB Mass Intensity Criteria**

<b>m/z</b>	<b>Abundance criteria</b>
50	15 - 40% of m/z 95.
75	30 - 60% of m/z 95.
95	Base Peak, 100% Relative Abundance.
96	5 - 9% of m/z 95.
173	<2% of m/z 174.
174	>50% of m/z 95.
175	5 - 9% of m/z 174.
176	>95% but <101% of m/z 174.
177	5 - 9% of m/z 176.

<sup>1</sup> Abundance criteria are for a quadrupole mass spectrometer. Alternative tuning criteria from other published EPA reference methods may be used, provided method performance is not adversely affected. Alternative tuning criteria specified by an instrument manufacturer may also be used for another type of mass spectrometer, or for an alternative carrier gas, provided method performance is not adversely affected.

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**ENV-MAN-CAR-0001 Quality Manual****QM Approval**

Name/Signature	Title	Date	Meaning/Reason
Kasey Raley (991121)	Manager - Quality	10 Mar 2021, 04:35:46 PM	Approved

**Management Approval**

Name/Signature	Title	Date	Meaning/Reason
Charles Hardin III (007342)	Manager - Operations	10 Mar 2021, 07:50:52 AM	Approved
William Thomas (006002)	Supervisor	10 Mar 2021, 07:53:55 AM	Approved
Jeffrey Graham (005586)	Regional Vice President - Oper	10 Mar 2021, 07:53:57 AM	Approved
Kevin Herring (005661)	Manager	10 Mar 2021, 08:07:44 AM	Approved
Felicia Grogan (002263)	General Manager 2	11 Mar 2021, 11:56:11 AM	Approved
David Stoneman (003602)	Supervisor	12 Mar 2021, 07:48:12 AM	Approved
Otis Coleman (006098)	Field Tech 1	15 Mar 2021, 09:00:32 PM	Approved
Craig Tronzo (006086)	Manager - Operations	16 Mar 2021, 11:53:09 AM	Approved
Stephanie Atkins (090460)	Manager - Quality Program	16 Mar 2021, 02:24:26 PM	Approved
Joseph Jenkins III (003761)	Field Tech 3	18 Mar 2021, 08:06:28 AM	Approved
Lance Crain (006415)	Supervisor	18 Mar 2021, 01:13:00 PM	Approved
Terri Page (007046)	Manager	22 Mar 2021, 09:21:51 AM	Approved



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**TITLE PAGE**

**LABORATORY QUALITY MANUAL**

**Prepared for:**

Pace Analytical Services, LLC  
2225 Riverside Drive  
Asheville, NC 28804  
Phone: 828-254-7176

Pace Analytical Services, LLC  
4915 Waters Edge Drive, Suite 120  
Raleigh, NC 27606  
Phone: 919-834-4984

Pace Analytical Services, LLC  
9800 Kincey Avenue, Suite 100  
Huntersville, NC 28078  
Phone: 704-875-9092  
(AKA: Charlotte)

Pace Analytical Services, LLC  
816 Durst Avenue  
Greenwood, SC 29649  
Phone: 864-229-4413

Pace Analytical Services, LLC  
205 E Meadow Road  
Eden, NC 27288  
Phone: 336-623-8921

Pace Analytical Services, LLC  
7130 Mechanicsville Turnpike  
Mechanicsville, VA 23111  
Phone: 804-559-9004

Pace Analytical Services, LLC  
120 Halton Road, Suite 13  
Greenville, SC 29607  
Phone: 864-297-0606

Pace Analytical Services, LLC  
110 Technology Parkway  
Peachtree Corners, GA 30092  
Phone: 770-734-4200

Pace Analytical Services, LLC  
106 Short Street  
Kernersville, NC 27284  
Phone: 336-996-2841




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Asheville, NC 28804  
Phone: 828-254-7176

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<b>Name<sup>1</sup></b>	<b>Title</b>	<b>Address<sup>2</sup></b>	<b>Phone<sup>2</sup></b>
Stephanic Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0954
Felicia Grogan	General Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0955
Kasey Raley	Quality Manager		
Danielle Schuler	Health & Safety		
Kevin Herring	IT Manager Client Services Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0945
Craig Tronzo	Technical Director Operations Manager - Inorganics		

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Huntersville, NC 28078  
Phone: 704-875-9092

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<b>Name<sup>1</sup></b>	<b>Title</b>	<b>Address<sup>2</sup></b>	<b>Phone<sup>2</sup></b>
Stephanic Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations		
Felicia Grogan	Technical Director General Manager		
Ross Simmons	Quality Manager		
Erick Hanna	Health & Safety		
Kevin Herring	IT Manager Client Services Manager		
Tripp Hardin	Operations Manager - Organics		

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205 E Meadow Rd  
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Phone: 336-623-8921

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Stephanie Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0954
Felicia Grogan	General Manager Technical Director	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0955
Kasey Raley	Quality Manager	2225 Riverside Dr Asheville, NC 28804	828-417-6052
Kevin Herring	Client Services Manager IT Manager	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0945
Otis Coleman	Safety Representative		
Terri Page	Service Center Manager		

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4915 Waters Edge Drive, Suite 120  
Raleigh, NC 27606  
Phone: 919-834-4984

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<b>Name<sup>1</sup></b>	<b>Title</b>	<b>Address<sup>2</sup></b>	<b>Phone<sup>2</sup></b>
Stephanie Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0954
Felicia Grogan	General Manager	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0955
Kasey Raley	Quality Manager	2225 Riverside Dr Asheville, NC 28804	828-417-6052
Kevin Herring	Client Services Manager IT Manager	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0945
William Thomas	Safety Representative		
Lance Crain	Service Center Manager		

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The individuals listed below represent the laboratory's management team that was in place on the effective date of this version of the manual for the following location:

Pace Analytical Services, LLC  
816 Durst Avenue  
Greenwood, SC 29649  
Phone: 864-229-4413

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<b>Name<sup>1</sup></b>	<b>Title</b>	<b>Address<sup>2</sup></b>	<b>Phone<sup>2</sup></b>
Stephanie Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0954
Felicia Grogan	General Manager	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0955
Kasey Raley	Quality Manager	2225 Riverside Dr Asheville, NC 28804	828-417-6052
Kevin Herring	Client Services Manager	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0945
Joseph Jenkins	Safety Representative		
Kevin Herring	IT Manager	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0945

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Pace Analytical Services, LLC  
7130 Mechanicsville Turnpike  
Mechanicsville, VA 23111  
Phone: 804-559-9004

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<b>Name<sup>1</sup></b>	<b>Title</b>	<b>Address<sup>2</sup></b>	<b>Phone<sup>2</sup></b>
Stephanic Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0954
Felicia Grogan	General Manager	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0955
Kasey Raley	Quality Manager	2225 Riverside Dr Asheville, NC 28804	828-417-6052
Kevin Herring	Client Services Manager IT Manager	9800 Kinsey Ave, Suite 100 Huntersville, NC 28078	704-977-0945
David Stoneman	Safety Representative		

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The individuals listed below represent the laboratory's management team that was in place on the effective date of this version of the manual for the following location:

Pace Analytical Services, LLC  
106 Short Street  
Kernersville, NC 27284  
Phone: 336-996-2841

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<b>Name<sup>1</sup></b>	<b>Title</b>	<b>Address<sup>2</sup></b>	<b>Phone<sup>2</sup></b>
Stephanie Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0954
Felicia Grogan	General Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0955
Kasey Raley	Quality Manager	2225 Riverside Dr Asheville, NC 28804	828-417-6052
Kevin Herring	Client Services Manager IT Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0945
Terri Page	Service Center Manager	205 E Meadow Rd Eden, NC 27288	336-623-8921
Stephanie Knott	Safety Representative		

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The individuals listed below represent the management team that was in place on the effective date of this version of the manual for the following location:

Pace Analytical Services, LLC  
110 Technology Parkway  
Peachtree Corners, GA 30092  
Phone: (770) 734-4200

Each of the following individuals is a signatory for the quality manual for the location listed above. The application of their signature to the manual signifies their commitment to communicate, implement, and uphold the requirements, policies and procedures specified in this manual and their commitment to continuously improve the effectiveness of the quality management system based on customer feedback and internal assessment.

<b>Name<sup>1</sup></b>	<b>Title</b>	<b>Address<sup>2</sup></b>	<b>Phone<sup>2</sup></b>
Stephanie Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0954
Felicia Grogan	General Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0955
Ross Simmons	Quality Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0959
Kevin Herring	Client Services Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-875-9092
Pamela Varner	Technical Director		
Charles Hawks	Health & Safety		
Michael Hudson	IT Manager		
Michael Hudson	Metals Department Supervisor		
LaKisha Hicks	WET Department Supervisor		
Colley Frank	Field Services Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-875-9092

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The individuals listed below represent the management team that was in place on the effective date of this version of the manual for the following location:

Pace Analytical Services, LLC  
120 Halton Rd., Suite 13,  
Greenville, SC 29607  
Phone: 864-297-0606

Each of the following individuals is a signatory for the quality manual for the location listed above. The application of their signature to the manual signifies their commitment to communicate, implement, and uphold the requirements, policies and procedures specified in this manual and their commitment to continuously improve the effectiveness of the quality management system based on customer feedback and internal assessment.

<b>Name<sup>1</sup></b>	<b>Title</b>	<b>Address<sup>2</sup></b>	<b>Phone<sup>2</sup></b>
Stephanie Atkins	Corporate Quality Program Manager	106 Vantage Point Drive, West Columbia, SC 29172	612-723-8459
Jeff Graham	Regional Vice-President - Operations	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0954
Felicia Grogan	General Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0955
Ross Simmons	Quality Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-977-0959
Kevin Herring	Client Services Manager	9800 Kincey Ave, Suite 100 Huntersville, NC 28078	704-875-9092
Open	Health & Safety	110 Technology Pkwy Peachtree Corners, GA 30092	770-734-4200
Michael Hudson	IT Manager	110 Technology Pkwy Peachtree Corners, GA 30092	770-734-4200
Aimee Hornsby	Greenville Lab Director <sup>3</sup>		

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## 1.0 PURPOSE AND SCOPE

### 1.1 Purpose

This quality manual (manual) outlines the quality management system (QMS) and management structure of the laboratories and service centers affiliated with the environmental sciences (ENV) division of Pace Analytical Services, LLC (PAS). A laboratory is defined by ENV as any facility, however named, that provides testing, sampling, or field measurement services. When the term ‘laboratory’ is used in this manual, the term refers to all locations listed on the Title Page of this manual and in Section 4.1.3 unless otherwise specified.

The ENV quality management system is also referred to as the quality program throughout this document. In this context, the phrase “quality management system” and “quality program” are synonymous and may be referred to by the acronym QMS.

The quality management system is the collection of policies and processes established by ENV management to consistently meet customer requirements and expectations, and to achieve the goals of providing PAS customers with high quality, cost-effective, analytical measurements and services.

The quality management system is also intended to establish conformance<sup>1</sup> and compliance with the current versions of the following international and national quality system standards:

- ISO/IEC 17025: *General requirements for the competence of testing and calibration laboratories*
- NELAC/TNI Standard Volume 1: *Management and Technical Requirements for Laboratories Performing Environmental Analysis*

<sup>1</sup>The statement of conformity to these Standards pertains only to testing and sampling activities carried out by the laboratory at its physical address, in temporary or mobile facilities, in-network, or by laboratory personnel at a customer’s facility.

In addition to the international and national standards, the quality management system is designed to achieve regulatory compliance with the various federal and state programs for which the laboratory provides compliance testing and/or holds certification or accreditation. When federal or state requirements do not apply to all ENV locations, the requirements for compliance to those specifications are provided in addendum to this manual or in other documents that supplement the manual. Customer-specific project and program requirements are not included in the manual in order to maintain client confidentiality.

- A list of accreditation and certifications held by each laboratory associated with this manual is provided in Appendix A.
- A list of analytical testing capabilities offered by each laboratory associated with this manual is provided in Appendix B.

### 1.2 Scope and Application

This manual applies to each of the PAS locations listed on the Title Page.

The manual was prepared from the quality manual template (template) created by ENV corporate quality personnel. The template outlines the minimum requirements ENV management considers necessary for every ENV location, regardless of scope of services or number of personnel, to establish in order to maintain a quality management system that achieves the objectives of the Quality Policy (See 4.2.2). In this regard, the template is the mechanism used by the corporate officers (a.k.a. ‘top




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management) to communicate their expectations and commitment for the quality program to ENV personnel.

Each location also has the responsibility to comply with federal and state regulatory and program requirements for which it provides analytical services and holds certification or accreditation. When those requirements are more stringent than the template, the requirements for compliance are provided in addendum to this manual or in other documents that supplement the manual. This document structure maintains consistency in the presentation of the quality management system across the network while providing the location a mechanism to describe and achieve compliance requirements on a program basis.

#### 1.2.1 Quality Manual Template

The quality manual template is developed by the Corporate Quality Director with contribution and input from corporate quality personnel and the corporate officers. Approval of the template by the corporate officers (aka "top management") confirms their commitment to develop and maintain a quality management system appropriate for the analytical services offered by the organization and to communicate their expectations of the quality program to all personnel.

The template and instructions for use of the template are released by corporate quality personnel to the quality assurance manager responsible for each location (Local QM). The local QM uses the template to prepare the laboratory's manual by following the instructions provided. Since the template provides the minimum requirements by which ENV locations must abide, the laboratory may not alter the font, structure or content of the template except where specified by instruction to do so. As previously stated, program specific requirements are provided in addendum or in documents that supplement this manual.

The template is reviewed by corporate quality personnel annually and updated if needed. More frequent review and revision may be necessary to manage change, to maintain conformance and compliance to relevant standards, or to meet customer expectations.

See standard operating procedure (SOP) ENV-SOP-CORQ-00015 *Document Management and Control* for more information.

#### 1.2.2 Laboratory Quality Manual

The manual is approved and released to personnel under the authority of local management whose signatures are identified on the Manual Signatory Page of this manual. The manual is reviewed annually, and location specific information is updated, if needed. More frequent review and revision may be necessary when there are significant changes to the organizational structure, capabilities, and resources of the laboratory. Review and revision of the manual is managed by the local QM. If review indicates changes to the main body of the manual are necessary to maintain conformance and compliance to relevant standards, or to meet customer expectations, the local QM will notify corporate quality personnel to initiate review and/or revision of the template.

See SOP ENV-SOP-CORQ-00015 *Document Management and Control* for more information.

#### 1.2.3 References to Supporting Documents

The template and the manual include references to other laboratory documents that support the quality management system such as policies and standard operating procedures (SOPs).




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These references include the document's document control number and may include the document title.

This information is subject to change. For example, an SOP may be converted to a policy or the document's title may change. For these types of administrative changes, the manual and template are updated to reflect the editorial change during the manual's next scheduled review/revision cycle or the next time a new version of the manual is released, whichever is sooner.

The local QM maintains a current list of controlled documents used at each location that support the quality management system. This list, known as the "Master List", lists each document used by document control number, title, version, effective date, and reference to any document(s) that the current version supersedes. When there is a difference between the manual and the Master List, the document information in the Master List takes precedence. The current Master List is readily available to personnel for their use and cross-reference. Parties external to the laboratory should contact the laboratory for the most current version.

## 2.0 REFERENCES

References used to prepare this manual include:

- "Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act." Federal Register, 40 CFR Part 136, most current version.
- "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846.
- "Methods for Chemical Analysis of Water and Wastes", EPA 600-4-79-020, 1979 Revised 1983, U.S. EPA.
- U.S. EPA Contract Laboratory Program Statement of Work for Organic Analysis, current version.
- U.S. EPA Contract Laboratory Program Statement of Work for Inorganic Analysis, current version.
- "Standard Methods for the Examination of Water and Wastewater." Current Edition APHA-AWWA-WPCF.
- "Annual Book of ASTM Standards", Section 4: Construction, Volume 04.04: Soil and Rock; Building Stones, American Society of Testing and Materials.
- "Annual Book of ASTM Standards", Section 11: Water and Environmental Technology, American Society of Testing and Materials.
- "NIOSH Manual of Analytical Methods", U.S. Department of Health and Human Services, National Institute for Occupational Safety and Health, most current version.
- "Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water", U.S. EPA, Environmental Monitoring and Support Laboratory – Cincinnati (Sep 1986).
- Quality Assurance of Chemical Measurements, Taylor, John K.; Lewis Publishers, Inc. 1987.
- Methods for Non-conventional Pesticides Chemicals Analysis of Industrial and Municipal Wastewater, Test Methods, EPA-440/1-83/079C.
- Environmental Measurements Laboratory (EML) Procedures Manual, HASL-300, US DOE, February 1992.




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- Requirements for Quality Control of Analytical Data, HAZWRAP, DOE/HWP-65/R1, July 1990.
- Quality Assurance Manual for Industrial Hygiene Chemistry, AIHA, most current version.
- National Environmental Laboratory Accreditation Conference (NELAC) Standard- most current version.
- ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories, 2<sup>nd</sup> Edition 2005-05-15; 3<sup>rd</sup> Edition 2017-11

The following are implemented by normative reference to ISO/IEC 17025:

- ISO/IEC Guide 99, *International vocabulary of metrology—Basic and general concepts and associated terms*
- ISO/IEC 17000, *Conformity assessment – Vocabulary and general principles*
- Department of Defense Quality Systems Manual (QSM), most current version.
- TNI (The NELAC Institute) Standard, 2009 and 2016 versions.
- UCMR Laboratory Approval Requirements and Information Document, most current version.
- US EPA Drinking Water Manual, most current version.

### 3.0 TERMS AND DEFINITIONS

Refer to Appendix C for terms, acronyms, and definitions used in this manual and in other documents used by the laboratory to support the quality management system.

## 4.0 MANAGEMENT REQUIREMENTS

### 4.1 Organization

#### 4.1.1 Legal Identity

Pace Analytical Services, LLC is authorized under the State of Minnesota to do business as a limited liability company.

##### 4.1.1.1 Change of Ownership

If there is a change of ownership, if a location goes out of business, or if the entire organization ceases to exist, Pace Analytical Services, LLC ensures that regulatory authorities are notified of the change within the time-frame required by each state agency for which the location is certified or accredited.

Requirements for records and other business information are addressed in the ownership transfer agreement or in accordance with appropriate regulatory requirements, whichever takes precedence.

#### 4.1.2 Compliance Responsibility

Laboratory management has the responsibility and authority to establish and implement procedures and to maintain sufficient resources necessary to assure its activities are carried out in such a way to meet the compliance requirements of the quality management system.






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#### 4.1.3 **Scope of the Quality Management System**

The quality management system applies to work carried out at each location covered by this manual including permanent facilities, at sites away from its permanent facilities, or in associated temporary or mobile facilities.

The permanent and mobile facilities to which this manual applies are listed on the Title Page of this manual.

#### 4.1.4 **Organization History and Information**

Founded in 1978, Pace Analytical Services, LLC (PAS) is a privately held scientific services firm operating one of the largest full-service contract laboratory and service center networks in the United States. The company's network offers inorganic, organic and radiochemistry testing capabilities; specializing in the analysis of trace level contamination in air, drinking water, groundwater, wastewater, soil, biota, and waste.

With over 90 laboratories and services centers in the contiguous US and in Puerto Rico, the network provides project support for thousands of industry, consulting, engineering and government professionals.

PAS delivers the highest standard of testing and scientific services in the market. We offer the most advanced solutions in the industry, backed by truly transparent data, a highly trained team, and the service and support that comes from four decades of experience.

##### 4.1.4.1 **Organization Structure**

Each location maintains a local management structure under the oversight and guidance of corporate personnel. Local management is responsible for making day-to-day decisions regarding the operations of the facility, implementing the quality management system, upholding the requirements of the quality program, and for supervision of personnel.

Local management is provided by the Regional Vice-President - Operations (RVPO), Corporate Quality Program Manager (QPM), General Manager (GM), Quality Manager (QM), and department specific management and supervisory personnel.

The GM reports to a Vice-President of Operations (RVPO), who is responsible for the management of multiple laboratories and service centers across the division. The RVPO reports directly to the Chief Operating Officer (COO).

The QM reports to a Quality Program Manager (QPM), who is responsible for managing quality personnel for multiple locations across the division. The QPM reports directly to the Corporate Quality Director (CQD). The QM also maintains an indirect reporting relationship to the GM of each location that the QM manages.

Technical oversight for each location is provided by corporate personnel, RVPO, QPM, GM, QM, and department-specific management.

Refer to the organization charts provided in Appendix D to view the management structure, reporting relationships, and the interrelationships between positions.




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#### 4.1.5 Management Requirements

##### 4.1.5.1 Personnel

The laboratory is staffed with administrative and technical personnel who perform and verify work under the supervision of managerial personnel.

- Technical personnel include analysts and technicians that generate or contribute to the generation of analytical data and managerial personnel that oversee day to day supervision of laboratory operations. Including the reporting of analytical data and results, monitoring QA/QC performance, and monitoring the validity of analysis to maintain data integrity and reliability.
- Administrative personnel support the day-to-day activities of the laboratory.
- IT personnel maintain the information technology systems and software used at the laboratory.
- Client services personnel include project managers and support staff that manage projects.
- Managerial personnel make day-to-day and long-term decisions regarding the operations of the facility, supervise personnel, implement the quality management system and uphold the requirements of the quality program.

All personnel regardless of responsibilities are expected to carry out their duties in accordance with the policies and processes outlined in this manual and in accordance with standard operating procedures (SOPs) and other quality system documents. The laboratory's policies and procedures are designed for impartiality and integrity. When these procedures are fully implemented, personnel remain free from undue pressure and other influences that adversely impact the quality of their work or data.

##### 4.1.5.1.1 Key Personnel

Key personnel include the management positions that have the authority and responsibility to plan, direct, and control, activities of the division (corporate) or the laboratory.

The following tables list key personnel positions by PAS job title and the position's primary deputy:

##### **Key Personnel: Corporate**

<b>Key Personnel</b>	<b>Primary Deputy</b>
Chief Executive Officer	Chief Operating Officer
Chief Operating Officer	Chief Executive Officer
Chief Compliance Officer	Quality Director
Corporate Quality Director	Chief Compliance Officer
Health and Safety Director	Chief Compliance Officer
IT Director	LIMS Administrator, however named.

##### **Key Personnel: Laboratory**

<b>Key Personnel</b>	<b>Primary Deputy</b>
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Regional Vice President - Operations	Chief Operating Officer or as designated.
Quality Program Manager	A different QPM or Corporate Quality Director
General Manager	Regional Vice President of Operations
Quality Manager	Quality Program Manager
Manager – Client Services	General Manager or as designated.
Local IT	Corporate IT Director or as designated.
Department Manager	General Manager
Technical Director <sup>1</sup> /Manager <sup>1</sup>	Another qualified employee
Acting Technical Manager TNI	
Operations Manager <sup>1</sup>	General Manager

<sup>1</sup> Position may not be staffed at each location.

Some state certification programs require the agency to be notified when there has been a change in key personnel. Program-specific requirements and timeframes for notification by agency, are tracked and upheld by the local QM, when these requirements apply.

**4.1.5.2 Roles and Responsibilities**

The qualifications, duties, and responsibilities for each position are detailed in job descriptions maintained by PAS’s corporate Human Resource’s Department (HR).

The following summaries briefly identify the responsibility of key personnel positions in relation to the ENV quality management system.

**Chief Executive Officer (CEO):** The CEO has overall responsibility for performance of the organization and endorses the quality program. Working with corporate and laboratory management, the CEO provides the leadership and resources necessary for ENV locations to achieve the goals and objectives of the quality management system and quality policy statement.

**Chief Operating Officer (COO):** The COO oversees all aspects of operations management including, strategic planning, budget, capital expenditure, and management of senior management personnel for ENV. In this capacity, the COO provides leadership and resources necessary to help top management at each ENV location achieve the goals and objectives of the quality management system and quality policy statement.

**Chief Compliance Officer (CCO):** The CCO oversees the quality assurance and environmental health and safety programs (EHS) for each business unit. The CCO is responsible for planning and policy development for these groups to ensure regulatory compliance and to manage risk. The position provides leadership and guidance necessary for all PAS locations to achieve the goals and objectives of the quality and EHS programs.

The CCO also serves as the Ethics Officer (ECO). The ECO develops the Ethics and Data Integrity Policy and Training Program and provides oversight for reporting and investigation of ethical misconduct to maintain employee confidentiality during the process. The ECO provides guidance and instruction for follow-up actions necessary to remedy the situation and deter future recurrence.




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**Corporate Director of Quality (CQD):** The Corporate Director of Quality is responsible for developing and maintaining the ENV quality program under guidance and assistance from the CEO, COO, and CCO. This position develops corporate quality policy and procedure and analyzes metric data and other performance indicators to assess and communicate the effectiveness of the quality program to top management. The position provides leadership and guidance for implementation of the quality program across all ENV locations.

**Corporate Quality Program Manager (QPM):** The Quality Program Manager is responsible for managing the implementation of the ENV quality program for one or more locations in the network. Working with the CQD and local laboratory management to which they are assigned, the QPM provides leadership, guidance and resources, including allocation of personnel, necessary to achieve the goals of ENV quality program.

**Corporate Director of Information Technology:** The Corporate Director of IT oversees the systems and processes of information technology used to support the quality program. These systems include Laboratory Information Management Systems (LIMS); data acquisition, reduction, and reporting software; virus-protection, communication tools, and ensuring the integrity and security of electronic data.

**Regional Vice-President of Operations):** The RVPO has full responsibility for administrative and operations management and performance of a group of ENV laboratories and service centers. Working with the COO and local laboratory management, the RVPO provides leadership, guidance and resources, including allocation of personnel, necessary to achieve the goals of ENV quality program.

**General Manager (GM):** The GM is responsible for the overall performance and administrative and operations management of an ENV location and associated service center(s). This position is responsible to provide leadership and resources, including allocation and supervision of personnel, necessary for the location to implement and achieve the goals of the PAS quality program. In this capacity, the position assures laboratory personnel are trained on and understand the structure and components of the quality program defined in this manual as well as the policies and procedures in place to implement the quality management system.

The GM of NELAC/TNI Accredited laboratories is also responsible for the designation of technical personnel to serve as acting technical managers for TNI for the fields of accreditation held by the laboratory (See Section 4.1.5.2.1) and for notifying the accreditation body (AB) of any extended absence or reassignment of these designations.

**Quality Manager (QM):** The QM oversees and monitors implementation of the quality management system for each ENV location assigned and communicates deviations to laboratory management. The QM is independent of the operation activities for which they provide oversight and has the authority to carry out the roles and responsibilities of their position without outside influence.

Additionally, in accordance with the TNI Standard, the QM:




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- serves as the focal point for QA/QC and oversees review of QC data for trend analysis;
- evaluates data objectively and perform assessments without outside influence;
- has documented training and experience in QA/QC procedures and the laboratory's quality system;
- has a general knowledge of the analytical methods offered by the laboratory;
- coordinates and conducts internal systems and technical audits;
- notifies laboratory management of deficiencies in the quality system;
- monitors corrective actions;
- provides support to technical personnel and may serve as the primary deputy for the acting TNI Technical Manager(s).

**Manager-Client Services (CSM):** This position is responsible for training and management of client facing staff that serve as the liaison between PAS and the customer to ensure that projects are successfully managed to meet the expectations and needs of PAS customers. This position is also responsible for sharing positive and negative customer feedback with laboratory management so that this information may be used to improve the quality program.

**Local IT Manager, however named:** Local IT managers are responsible for maintaining the IT systems used to support the quality program. These systems include Laboratory Information Management Systems (LIMS); data acquisition, reduction, and reporting software; virus-protection, communication tools, and ensuring the integrity and security of electronic data.

**Department Manager (DM):** The DM is responsible for administrative and operations management and implementation of the quality management system in the work area he/she oversees. These responsibilities include but are not limited to: training and supervision of personnel, monitoring work activity to maintain compliance with this manual, SOPs, policies and other instructional documents that support the quality management system; method development, validation and the establishment and implementation of SOPs to assure regulatory compliance and suitability for intended purpose; monitoring QA/QC performance, proper handling and reporting of nonconforming work, purchasing of supplies and equipment adequate for use, maintaining instrumentation and equipment in proper working order and calibration, and general maintenance of administrative and technical processes and procedures established by the laboratory.

**Operations Manager (OM):** The OM is responsible for management of production and/or other duties assigned by the GM.

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**4.1.5.2.1 Acting Technical Manager (TNI Accreditation):**

For ENV locations that are NELAC/TNI accredited:




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The TNI Standard specifies requirements for the qualification and duties of technical personnel with managerial responsibility. These requirements are associated in the Standard to the designation 'technical manager(s), however named'. These responsibilities may be assigned to multiple individuals and are not associated with any specific job title.

The TNI requirements for personnel that provide technical oversight correlate with ENV job descriptions for Department Manager or Supervisor. However, the duties may be assigned to any PAS employee that meets the TNI specified qualifications.

Personnel assigned this designation retain their assigned job title. The job title may be appended with "*acting as technical manager for TNI*" and the technology or field of accreditation for which the employee is approved, if necessary.

When TNI Accreditation Bodies (AB) refer to these employees as 'technical manager' or 'technical director' on the official certificate or the scope of accreditation, this reference is referring to their approval to carry out duties of the 'technical manager, however named' as specified in the TNI Standard.

In accordance with the TNI Standard, the acting Technical Manager(s) for TNI are responsible for monitoring the performance of QC/QA in the work areas they oversee.

If the absence of any employee that is approved as acting technical manager for TNI exceeds 15 calendar days, the duties and responsibilities specified in the TNI Standard are temporarily reassigned to another employee that meets the qualifications for the technology or field of accreditation. If the employee's absence exceeds 35 calendar days, the QM will formally notify the TNI primary AB of the absence and the details of reassignment of duties in writing.

Refer to the applicable TNI Standard for requirements for technical oversight and required qualifications of the acting Technical Manager(s) for each discipline (chemical, limited inorganic chemistry, and microbiology).

#### **4.1.5.3 Conflict of Interest**

A conflict of interest is a situation where a person has competing interests. Laboratory management looks for potential conflict of interest and undue pressures that might arise in work activities and then includes countermeasures in policies and procedures to mitigate or eliminate the conflict.

See policy COR-POL-0004 *Ethics Policy* for more information.



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**4.1.5.4 Confidentiality**

Laboratory management is committed to preserving the confidentiality of PAS customers and confidentiality of business information.

Procedures used by the laboratory to maintain confidentiality include:

- A Confidentiality Agreement which all employees are required to sign at the time of employment and abide by the conditions of throughout employment;
- Record retention and disposal procedures that assure confidentiality is maintained;
- Physical access controls and encryption of electronic data; and
- Protocol for handling Confidential Business Information (CBI).

Client information obtained or created during work activities is considered confidential and is protected from intentional release to any person or entity other than the client or the client's authorized representative, except when the laboratory is required by law to release confidential information to another party, such as a regulatory agency or for litigation purposes. In which case, the laboratory will notify the client of the release of information and the information provided.

The terms of client confidentiality are included in ENV Standard Terms and Conditions (T&C). With the acceptance of ENV Terms and Conditions and/or the implicit contract for analytical services that occurs when the client sends samples to the laboratory for testing, the client authorizes PAS to release confidential information when required.

See policy COR-POL-0004 *Ethics Policy* for more information.

**4.1.5.5 Communication**

Communication is defined as the imparting or exchanging of news and information. Effective (good) communication occurs when the person(s) you are exchanging information with actively gets the point and understands it.

**4.1.5.5.1 Workplace Communication**

Good communication in the workplace is necessary to assure work is done correctly, efficiently, and in accordance with client expectations.

Instructions for how to carry out work activities are communicated to personnel via written policy, standard operating procedures, and standard work instructions.

Information about laboratory performance (positive and negative) and ideas for improvement are communicated using various communication channels such as face to face meetings, video conferencing, conference calls, email, memoranda, written reports, and posters.




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#### 4.1.5.5.2 External Communication

Communication with external parties such as customers, vendors, business partners, and regulatory agencies takes place every day.

Laboratory management ensure personnel learn to communicate in professional and respectful ways in order to build strong relationships and learn to communicate effectively to avoid misunderstanding.

## 4.2 Quality Management System

### 4.2.1 Quality Management System Objectives

The objectives of the laboratory's quality management system are to provide clients with consistent, exemplary professional service, and objective work product that is of known and documented quality that meets their requirements for data usability and regulatory compliance.

Objective work product is analytical services, data, test results, and information that is not influenced by personal feeling or opinions. The quality of being objective is also known as 'impartiality'.

#### 4.2.1.1 Impartiality

The laboratory achieves and maintains impartiality by implementing and adhering to the policies and processes of the quality management system, which are based on industry accepted standards and methodologies.

The laboratory's procedures for handling nonconforming work (See 4.9), corrective and preventive actions (See 4.11, 4.12) and management review (See 4.15) are the primary mechanisms used to identify risk to impartiality and to prompt actions necessary to eliminate or reduce the threat when risk to impartiality is suspected or confirmed.

#### 4.2.1.2 Risk and Opportunity Assessment

Risks are variables that make achieving the goals and objectives of the quality management system uncertain. An opportunity is something that has potential positive consequences for the laboratory.

Laboratory personnel manage risks and opportunities on a daily basis by carrying out the processes that make up the quality management system. Some of the ways in which the quality management system is designed to identify, minimize, or eliminate risk on a daily basis include but are not limited to:

- Capability and capacity reviews of each analytical service request to assure the laboratory can meet the customer's requirements;
- Maintenance of accreditation and certification for test methods in multiple states and programs to cover a broad range of jurisdiction for regulatory compliance;
- SOPs and other controlled instructional documents are provided to personnel to eliminate variability in process. These documents include actions to counter risk






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factors inherent in the process and are reviewed on a regular basis for on-going suitability and relevancy;

- Participation in proficiency testing programs and auditing activities to verify on-going competency and comparability in performance;
- Provision of on-the-job training and established protocol for quality control (QC) corrective action for nonconforming events;
- An established program for ethics, and data integrity;
- Tiered data review process;
- Culture of continuous improvement;
- Monitoring activities to assess daily and long-term performance; and
- Annual critical review of the effectiveness of the quality management system.

ENV also promotes a continuous improvement culture based on the principles of lean manufacturing. These principles include 3P (Process, Productivity, Performance) and Kaizen. 3P is a platform used by Pace to share best practices and standardization across the network to achieve operational excellence. Kaizen is a team-based process used to implement tools and philosophies of lean to reduce waste and achieve flow with the purpose of improving both external and internal customer satisfaction. ENV's lean programs and activities help to mitigate risk because they generate a collective understanding of vulnerabilities and utilize group-effort to develop and implement solutions at all levels.

Risk and opportunities may also be formally identified using specific risk and opportunity assessment methods such as SWOT Analysis (Strength, Weakness, Opportunity, Threats) and 3-Stage Impact/Probability Grids.

#### **4.2.1.3 Communication of the Quality Management System**

This manual is the primary mechanism used by laboratory management to communicate the quality management system to laboratory personnel.

To assure personnel understand and implement the quality program outlined in the manual:

- All laboratory personnel are required to sign a Read and Acknowledgement Statement to confirm the employee has: 1) been informed of the manual by laboratory management, 2) has access to the manual, 3) has read the manual 4) understands the content of the manual, and 5) agrees to abide by the requirements, policies and procedures therein.
- Personnel are informed that the manual provides the "what" of the quality management system. The "how to" implementation of the quality management system is provided in policy, SOPs, standard work instructions, and other controlled instructional documents.




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#### 4.2.2 **Quality Policy Statement**

The quality policy of the laboratory is to provide customers with data of known and documented quality fit for their intended purpose. The laboratory achieves this policy by implementing the quality management system defined in this manual, by following industry accepted protocol for analytical testing and quality assurance and quality control (QA/QC) activities, by conformance with published and industry accepted testing methodologies, and by compliance with international and national standards for the competency and/or accreditation of testing laboratories.

Intrinsic to this policy statement is each of the following principles:

- The laboratory will provide customers with reliable, consistent, and professional service. This is accomplished by making sure the laboratory has the resources necessary to maintain capability and capacity; that staff are trained and competent to perform the tasks they are assigned; that client-facing staff are trained and prepared to find solutions to problems and to assist customers with their needs for analytical services. Customer feedback, both positive and negative, is shared with personnel and used to identify opportunities for improvement.
- The laboratory maintains a quality program that complies with applicable state, federal, and industry standards for analytical testing and competency.

ISO/IEC 17025 and the TNI (The NELAC Institute) Standard is used by ENV to establish the minimum requirements of the ENV quality program.

ISO/IEC 17025 is a competency standard that outlines the general requirements for the management system for calibration and testing laboratories. It is the primary quality system standard from which other quality system standards, such as the TNI Standard, are based. The TNI Standards are consensus standards that provides management and technical requirements for laboratories performing environmental analysis.

- Laboratory management provides training to personnel so that all personnel are familiar with the quality management system outlined in this manual and that they understand that implementation of the quality management system is achieved by adherence to the organization's policies and procedures.
- Laboratory management continuously evaluates and improves the effectiveness of the quality management system by responding to customer feedback, and other measures of performance, such as but not limited to: the results of internal/external audits, proficiency testing, metrics, trend reports, and annual and periodic management reviews.

##### 4.2.2.1 **Ethics Policy / Data Integrity Program**

PAS has established a comprehensive ethics and data integrity program that is communicated to all PAS employees in order that they understand what is expected of them. The program is designed to promote a mindset of ethical behavior and professional conduct that is applied to all work activities.

The key elements of the PAS Ethics / Data Integrity Program include:




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- Ethics Policy (COR-POL-0004);
- Ethics Officer;
- Standardized data integrity training course taken by all new employees on hire and a yearly refresher data integrity training course for all existing employees;
- Policy Acknowledgement Statements that all PAS personnel, including contract and temporary, are required to sign at the time of employment and again during annual refresher training to document the employee's commitment and obligation to abide by the company's standards for ethics, data integrity and confidentiality;
- SOPs that provide instructions for how to carry out a test method or process to assure tasks are done correctly and consistently by each employee;
- On the Job Training;
- Data integrity monitoring activities which include, but are not limited to, primary, secondary and completeness data reviews, internal technical and system audits, data audits, data surveillance, and proficiency testing; and
- Confidential reporting process for alleged ethics and data integrity issues.

All laboratory managers are expected to provide a work environment where personnel feel safe and can report unethical or improper behavior in complete confidence without fear of retaliation. Retaliation against any employee that reports a concern is not tolerated.

PAS has engaged Lighthouse Services, Inc. to provide personnel with an anonymous reporting process available to them 24 hours a day/7 days per week. The alert line may be used by any employee to report possible violations of the company's ethics and data integrity program. When using the reporting process, the employee does need to specify the location of concern and when reporting by email, also include the company name. Messages are collected, documented, reviewed, and will be followed up on by the Ethics Compliance Officer to resolve the matter. Investigations concerning data integrity are kept confidential.

**Lighthouse Compliance Alert Lines:**

English Speaking US & Canada	(844) 940-0003
Spanish Speaking North America	(800) 216-1288
Internet	<a href="http://www/lighthouse-services.com/pacelabs">www/lighthouse-services.com/pacelabs</a>
Email	<a href="mailto:reports@lighthouse-services.com">reports@lighthouse-services.com</a>

**4.2.3 Management Commitment: Quality Management System**

Evidence of management's commitment for the development, maintenance, and on-going improvement of the quality management system is provided by the application of their signature of approval to this manual. Their signature confirms they understand their responsibility to implement the quality management system outlined in this manual, to



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communicate the quality program to personnel, and to uphold requirements of the program during work activities.

#### 4.2.4 Management Commitment: Customer Service

Management communicates the importance of meeting customer and regulatory requirements to personnel by training personnel on the quality management system outlined in this manual, implementing the quality management system outlined in this manual, and upholding these requirements for all work activities.

#### 4.2.5 Supporting Procedures

Documents that support this manual and quality management system are referenced throughout this manual. The structure of the document management system is outlined in SOP ENV-SOP-CORQ-0015 *Document Management and Control* and summarized in the following subsections.

##### 4.2.5.1 Quality Management System Document Structure

Documents associated with the quality management system are classified into document types that identify the purpose of the document and establish how the document is managed and /or controlled.

Document types are ranked to establish which documents takes precedence when there is an actual or perceived conflict between documents and to establish the hierarchal relationships between documents. The ranking system also provides information to document writers and reviewers to assure downline documents are in agreement with documents of higher rank. Project specific documents are not ranked because client specific requirements are not incorporated into general use documents in order to maintain client confidentiality.

##### Examples: ENV QMS Documents: Internal

Document Type	Purpose
Quality Manual	Outlines the laboratory's quality management system and structure and how it works for a system including policy, goals, objectives and detailed explanation of the system and the requirements for implementation of system. Includes roles and responsibilities, relationships, procedures, systems and other information necessary to meet the objectives of the system described.
Policy	Provide requirements and rules for a PAS process and is used to set course of actions and to guide and influence decisions. Policy describes the "what", not the "how".
Standard Operating Procedure	Provide written and consistent set of instructions or steps for execution of a routine process, method, or set of tasks performed by PAS. Includes both fundamental and operational elements for implementation of the systems described in PAS manual(s). Assures that activities are performed properly in accordance with applicable requirements. Designed to ensure consistency, protect EHS of employees and environment, prevent failure in the process and ensure compliance with company and regulatory requirements. SOPs describes the "how" based on policy.
Standard Work Instruction	Provide step by step visual and/or written instruction to carry out a specific task to improve competency, minimize variability, reduce work injury and strain, or to boost efficiency and quality of work (performance). SWI are associated with an SOP unless the task described is unrelated to generation of or contribution to environmental data or analytical results.
Template	Pre-formatted document that serves as a starting point for a new document.



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Guide	Provide assistance to carry out a task.
Form	Used for a variety of purposes such as to provide a standardized format to record observations, to provide information to supplement an SOP.
Guidance	Non-binding advice used to explain internal policies, procedures, or practices.

**Example: ENV QMS Documents: External**

Certificate	Lists parameters, methods, and matrices for which the laboratory is certified/accredited to perform within the jurisdiction of the issuing regulatory agency or accreditation body.
Reference Document	Provide information, protocol, instructions, and/or requirements. Issued by the specifier. Examples include quality system standards such as ISO/IEC, TNI, DoD and published referenced methods such as Standard Methods, ASTM, SW846, EPA, and federal and state regulatory bodies.
Project Document	Provides requirements necessary to meet individual client expectations for intended use of data. Examples include project quality assurance plans (QAPP), client-program technical specifications, contracts, and other agreements.

**Document Hierarchy**

Rank	Document
1	Reference Documents
2	Corporate Manual
3	Corporate Policy
4	Corporate SOP
5	Corporate SWI, Templates, Guides, Forms, Guidance
6	Laboratory Manual
7	Laboratory SOP
8	Laboratory SWI, Templates, Guide, Forms, Guidance
NA	Project Documents

**4.2.6 Roles and Responsibilities**

The roles and responsibilities for technical management and the quality manager is provided in section 4.1.5.2.

**4.2.7 Change Management**

When significant changes to the ENV quality management system are planned, these changes are managed by corporate quality personnel to assure that the integrity of the quality management system is maintained.

**4.3 Document Control**

**4.3.1 General**

The laboratory’s procedures for document control are provided in SOP ENV-SOP-CORQ-0015 *Document Management and Control*.

The laboratory uses electronic document management software (eDMS) to carry out the document control procedures of the SOP. eDMS automates the process for unique document identification, version control, approval, access, and archival. The eDMS software used by ENV restricts access to archived documents except to authorized users to prevent the use of obsolete documents.




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The local QM maintains a master list of controlled documents used at the laboratory. The master list includes the document control number, document title, and current revision status and is made available to personnel for their reference.

See SOP ENV-SOP-CORQ-0015 *Document Management and Control* for more information.

#### 4.3.2 Document Approval and Issue

Documents that support the quality management system are reviewed by qualified personnel and approved by laboratory management prior to release for general use.

Only the approved versions of documents are available to personnel for use unless use of a draft document is authorized by management.

See SOP ENV-SOP-CORQ-0015 *Document Management and Control* for more information.

#### 4.3.3 Document Review and Change

Unless a more frequent review is required by regulatory, certification or accreditation program the laboratory formally reviews documents at least every two years to ensure the document remains current, appropriate, and relevant.

Documents are also informally reviewed every time the document is used. Personnel are expected to refer to and follow instructions in controlled documents when they carry out their work activities. Consequently, any concerns or problems with the document should be caught and brought to the attention of laboratory management on an on-going basis.

Documents are revised whenever necessary to ensure the document remains usable and correct. Older document versions and documents no longer needed are made obsolete and archived for historical purposes.

ENV does not allow hand-edits to documents. If an interim change is needed pending re-issue of the document, the interim change is communicated to those that use the document using a formal communication channel, such as SOP Change in Progress form, email, or memorandum.

The document review, revision, and archival process is managed by quality personnel at the location from which the document was released using the procedures established in SOP ENV-SOP-CORQ-0015 *Document Management and Control*.

### 4.4 Analytical Service Request, Tender, and Contract Review

The laboratory's management and/or client service personnel perform thorough reviews of requests and contracts for analytical services to verify the laboratory has the capability, capacity, and resources necessary to successfully meet the customer's needs. These review procedures are described in laboratory SOP ENV-SOP-CAR-0028 *Review of Analytical Requests*.

The procedures in this SOP(s) are established to ensure that:

- The laboratory understands the purpose of data collection in order to ensure the test methods requested are appropriate for the intended use of the data and capable of meeting the client's data quality objectives;




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- The laboratory and any subcontractor has the capability, capacity, and resources to meet the project requirements and expectations within the requested time frame for delivery of work product;
- Any concerns that arise from review are discussed and resolved with the client; and
- The results of review and any correspondence with the client related to this process and/or any changes made to the contract are recorded and retained for historical purposes.

Capability review confirms that the in-network laboratories and any potential subcontractors hold required certification/accreditation for the test method, matrix, and analyte and verifies the laboratory can achieve the client's target compound list and data quality objectives (DQOs) for analytical sensitivity and reporting limits, QA/QC protocol, and hardcopy test report and electronic data deliverable (EDD) formats.

Capacity review verifies that the in-network laboratories and any potential subcontractors are able to handle the sample load and deliver work production within the delivery timeframe requested.

Resource review verifies that the laboratory and any potential subcontractors have adequate qualified personnel with the skills and competency to perform the test methods and services requested and sufficient and proper equipment and instrumentation needed to perform the services requested.

#### **4.5 Subcontracting and In-Network Work Transfer**

The terms 'subcontract' and "subcontracting" refers to work sent to a business external to Pace Analytical Services, LLC (PAS) and the term 'subcontractor' refers to these external businesses, which are also called vendors.

Work transferred within the ENV network is referred to as interregional work orders (IRWO) and network laboratories are referred to as IRWO, IR, or a network laboratory.

The network of ENV laboratories offers comprehensive analytical capability and capacity to ensure PAS can meet a diverse range of client needs for any type of project. If the laboratory receives a request for analytical services and it cannot fulfill the project specifications, the laboratory's client services team will work with the client to place the work within the ENV network. When it is not possible to place the work within network, the laboratory will, with documented client approval, subcontract the work to a subcontractor that has the capabilities to meet the project specifications and can meet the same commitment agreed on between the laboratory and the client. Some client programs require client consent even for in-network work transfer, and when this applies, the client services team obtains consent as required. The laboratory retains the record of client notification and their consent in the project record for historical purposes.

Whenever work is transferred to a subcontractor or an in-network laboratory, the laboratory responsible for management of the project verifies each of these qualifications:

- The subcontractor or in network laboratory has the proper accreditation/certifications required for the project and these are current; and
- The use of the subcontractor or in network laboratory is approved by the client and/or regulatory agency, when approval is required. Record of approval is retained in the project record.

All subcontractor laboratories must maintain a quality management system like ENV and that complies with ISO/IEC 17025 and the TNI Standard(s).




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ENV also evaluates and pre-qualifies subcontractors as part of the company's vendor qualification program. The complete list of approved vendors is maintained by the corporate procurement department and is made available to all ENV locations. Pre-qualification of a subcontractor does not negate the requirement for the placing laboratory to verify the capability, capacity, and resources of any selected subcontractor on a project-specific basis to confirm the subcontractor can meet the client's needs.

For both subcontracting and in-network work transfer, the project specifications are always communicated to the subcontractor or the in-network laboratory by the project manager so that the laboratory performing the work is aware of and understands these requirements.

The procedures for subcontracting are outlined in laboratory SOP ENV-SOP-CAR-0015 *Subcontracting Samples*.

#### **4.6 Purchasing Services and Supplies**

Vendors that provide services and supplies to the laboratory are prequalified to verify the vendor's capability to meet the needs of PAS. These needs include but are not limited to competitive pricing, capacity to fill purchase orders, quality of product, customer service, and business reputation and stability. The records of vendor evaluation and the list of approved vendors is maintained by the corporate procurement department.

The procedures for vendor qualification are specified in the corporate process for vendor qualification, however named.

The laboratory may purchase goods and services from any supplier on the approved vendor list.

The specifications (type, class, grade, tolerance, purity, etc.) of supplies, equipment, reagents, standard reference materials and other consumables used in the testing process are specified in SOPs. The SOP specifications are based on the governing requirements of the approved reference methods and any additional program driven regulatory specification, such as drinking water compliance. All requisitions for materials and consumables are approved by the department supervisor to confirm the purchase conforms with specified requirements. After approval the requisition is handled by the laboratory's designated purchasing agent. On receipt, the product is inspected and verified before use, when applicable.

The laboratory's procedure for the purchase of services and supplies is specified in laboratory SOP ENV-SOP-CAR-0025 *Purchasing of Lab Supplies*.

#### **4.7 Customer Service**

Project details and management is handled by the laboratory's customer service team. Each customer is assigned a Project Manager (PM) that is responsible for review of contract requirements and handling laboratory to customer communication about the project status.

##### **4.7.1 Commitment to Meet Customer Expectations**

The laboratory cooperates and works closely with our customers to ensure their needs are met and to establish their confidence in the laboratory's capability to meet their needs for analytical services and expectations for service.

The PM is the customer's primary point of contact for each analytical service request. The PM gathers information from the customer to ensure the details of their request are understood. After samples are received, the PM monitors the progress of the project and alerts






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the customer of any delays or excursions that may adversely impact data usability. Laboratory supervisors are expected to keep the PM informed of project status and any delays or major issues, so that the PM can keep the client informed.

The laboratory encourages customers to visit the laboratory to learn more about the laboratory's capabilities, observe performance and to meet laboratory personnel.

ENV customers expect confidentiality. Laboratory personnel will not divulge or release information to a third party without proper authorization unless the information is required for litigation purposes. See Section 4.1.5.4 of this manual and policy COR-POL-0004 *Ethics Policy* for more information on the laboratory's policy for client confidentiality.

#### 4.7.2 Customer Feedback

The laboratory actively seeks positive and negative feedback from customers through surveys and direct communication. Information from the client about their experience working with the laboratory and their satisfaction with work product is used to enhance processes and practices and to improve decision making. Customer feedback is communicated to laboratory management and corporate personnel in management reports and analyzed yearly during management review (See 4.15) to identify risk and opportunity. Corrective, preventive, or continuous improvement actions are taken based on nature of and/or feedback trends.

Also see sections 4.9, 4.10, 4.11, 4.12, 4.14, and 4.15 for more information about how customer feedback is managed by the laboratory and used to enhance the quality management system.

### 4.8 Complaints

Complaints provide opportunities to improve processes and build stronger working relationships with our clients.

The laboratory's complaint resolution process includes three steps. First, handle and resolve the complaint to mutual satisfaction. Second, perform corrective action to prevent recurrence (See 4.11). Third, record and track the complaint and use these records for risk and opportunity assessment and preventive action (See 4.12).

### 4.9 Nonconforming Work

#### 4.9.1 Definition of Nonconforming Work

Nonconforming work is work that does not conform to customer requirements, standard specifications, laboratory policies and procedures, or that does not meet acceptance criteria.

The discovery of non-conforming work comes from various sources which include, but are not limited to:

- results of quality control samples and instrument calibrations;
- quality checks on consumables and materials;
- general observations of laboratory personnel;
- data review;
- proficiency testing;
- internal and external audits;



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- complaints and feedback;
- management review and reports; and
- regulatory and certification and accreditation actions.

The way in which the laboratory handles nonconforming work depends on the significance and impact (risk) of the issue. Some issues may simply require correction, others may require investigation, corrective action (See 4.11) and/or data recall (See 4.16). When the laboratory releases data and test results associated with nonconforming QC and acceptance criteria, test results are qualified, or non-conformances are noted in the final analytical report to apprise the data user of the situation. (See 5.10)

Nonconforming work also includes unauthorized departure from laboratory policies, procedures and test methods. Authorized departures are explained in the following subsections. Situations that do not conform to these conditions are considered unauthorized departure(s).

**4.9.1.1 Authorized Departure from SOP**

An authorized departure from a test method SOP is one that has been reviewed and approved by the Department Manager, designated Acting Technical Manager for TNI for the discipline the SOP pertains to (Chemistry, Inorganic Chemistry, Microbiology), Quality Manager, or the General Manager. Management review is conducted to confirm the departure does not conflict with regulatory compliance requirements for which the data will be used or does not adversely affect data integrity. The departure may originate from client request or may be necessary to overcome a problem.

An authorized departure from administrative or process-oriented SOP is typically necessary to correct an error in the SOP. These departure requests are reviewed and pre-approved by the QA Manager.

Documentation of SOP departures and approval decisions are retained by the laboratory as evidence that the departure was authorized. When necessary, approved departures from test method SOPs are noted in the final test report to advise the data user of any ramification to data quality.

**4.9.1.2 Authorized Departure from Test Methods (Method Modifications)**

When test results are associated to a published reference test method, the laboratory's test method SOP must be consistent with the test method. If the test method is mandated for use by a specific regulatory program such as drinking water or wastewater or a certification or accreditation program, such as TNI/NELAC, the SOP must also comply with or include these requirements. If the procedures in the SOP are modified from the test method, these modifications must be clearly identified in the SOP. The conditions under which the laboratory may establish an SOP that is modified from these reference documents, and what is considered a modification are specified in ENV-SOP-CORQ-0011 *Method Validation and Instrument Verification*.

Modifications that do not meet the requirements of this SOP (ENV-SOP-CORQ-0011) are unauthorized. Client requests to deviate from the test method are handled




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as client requests to depart from the test method SOP since it is the SOP that the laboratory follows when performing work.

#### 4.9.1.3 Stop Work Authority

Stop Work Authority provides laboratory personnel with the responsibility and obligation to stop work when there is a perceived unsafe condition or behavior that may result in an unwanted event.

All laboratory and corporate personnel have the authority to stop work when needed to preserve data integrity or safety of workers.

Once a stop work order has been initiated and the reason for doing so is confirmed valid; laboratory management is responsible for immediate correction and corrective action (see section 4.11) before resumption of work.

### 4.10 Continuous Improvement

The laboratory's quality management system is designed to achieve continuous improvement through the implementation of the quality policy and objectives outlined in this manual. Information about the laboratory's activities and performance is gained from many sources such as customer feedback, audits, QC, trend analysis, business analytics, management reports, proficiency testing, and management systems review. This information is subsequently used during the laboratory's corrective action (see section 4.11) and preventive action (see section 4.12) processes and during annual review of the management system (see section 4.15) to establish goals and objectives for improvement.

ENV also promotes a continuous improvement culture based on the principles of lean manufacturing. These principles include 3P (Process, Productivity, Performance) and Kaizen. 3P is a platform used by Pace to share best practices and standardization across the network to achieve operational excellence. Kaizen is a team-based process used to implement tools and philosophies of lean to reduce waste and achieve flow with the purpose of improving both external and internal customer satisfaction.

### 4.11 Corrective Action

Corrective action is a process used to eliminate the cause of a detected nonconformity. It is not the same as a correction. A correction is an action taken to fix an immediate problem. The goal of the corrective action process is to find the underlying cause(s) of the problem and to put in place fixes to prevent the problem from happening again. The corrective action process, referred to as CAPA by ENV, is one of the most effective tools used by the laboratory to prevent nonconforming work, identify risk and opportunity, and improve service to our customers.

The laboratory has two general processes for corrective action:

The process used for actions taken in response to day to day quality control (QC) and acceptance criteria exceptions (nonconformance) that occur during the day to day testing process are called corrections. These events do not usually include formal methods for cause analysis; instead the reason for the failure is investigated through troubleshooting or other measures. Required actions for correction of routine nonconformance is specified in laboratory SOPs. When corrective action is not taken, cannot be taken, or is not successful, test results associated with the nonconforming work are qualified in the final test report. Documentation of the nonconformance and corrective action taken is documented in the analytical record.



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A 7 stage corrective action process is used when there is a problem or departure from the quality management system, technical activities, or when the extent of a single problem has significant impact on data, regulatory compliance or customer needs. These problems are identified through various activities such as but not limited to: quality control trends, internal and external audits, management review, customer feedback, and general observation.

The laboratory's 7 Stage CAPA Process includes:

- 1) Identification and Containment
- 2) Evaluation
- 3) Investigation
- 4) Cause Analysis
- 5) Action Plan
- 6) Implementation
- 7) Follow Up and Effectiveness Review

The 7 stage CAPA process may be initiated by any employee. Once the process is initiated it is overseen and coordinated by laboratory management. The CAPA process is documented using a software-based workflow process called Qualtrax. The Qualtrax CAPA record includes tracking information, dates, individuals involved, those responsible for action plan implementation and follow-up, and timelines and due dates.

ENV's procedures for corrective action, are specified in corporate SOP ENV-SOP-CORQ-0018, *Procedure for Corrective and Preventive Action*. Additional explanation about certain aspects of the laboratory's corrective action process are outlined in the next three subsections.

#### 4.11.1 Cause Analysis

Cause analysis is the process of investigation used by the laboratory to identify the underlying cause(s) of the problem. Once causal factors are identified, ways to mitigate the causal factors are reviewed and corrective action(s) most likely to eliminate the problem are selected.

The laboratory uses different methods to conduct this analysis. The most common approach is 5-Why, but fishbone diagrams, or even brainstorming may be appropriate depending on the situation. The method used is documented in the CAPA record.

#### 4.11.2 Effectiveness Review

Monitoring corrective actions for effectiveness is an activity shared by laboratory supervisors and quality assurance personnel. Effectiveness means the actions taken were sustainable and appropriate. Sustainable means the change is still in place. Appropriate means the action(s) taken prevented recurrence of the problem since the time corrective action was taken.

The timeframe in which effectiveness review takes place depends on the event and is recorded in the CAPA record with any additional actions that need to be taken.

Corrective action trends are also monitored by laboratory management and used to identify opportunities for preventive action or to gain lessons learned when actions taken were not adequate to solve the problem. See Section 4.12 (Preventive Action) and 4.15 (Management Review) for more information.



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#### 4.11.3 Additional Audits

When non-conformities or other problems cast doubt on compliance with the laboratory's policies, procedures, or compliance to regulatory requirements; the quality manager schedules a special audit of the area of activity in accordance with Section 4.14.1 as soon as possible. These special audits are used to determine the scope of the problem and to provide information for the CAPA process. Additional full-scale audits are done when a serious issue or risk to the laboratory's business is identified.

#### 4.12 Preventive Action

Preventive action is an action taken to eliminate the cause of a potential nonconformity and to achieve improvement. Preventive action is a forward-thinking process designed to prevent problems opposed to reacting to them (corrective action).

Some examples of preventative action include, but are not limited to:

- Scheduled instrument maintenance (Preventative maintenance)
- Addition of Staff and Equipment
- Professional Development Activities
- Implementation of New Technology

The laboratory looks for opportunities for preventive action from a variety of sources including but not limited to: employee idea's, customer feedback, business partners input, trend analysis, business analytics, management reviews, proficiency testing results, lean management events, and risk-benefit analysis.

Laboratory management evaluates the success of preventive actions taken in any given year during annual management review. See Section 4.15 for more information.

##### 4.12.1 Change Management

Preventive actions may sometimes result in significant changes to processes and procedures used by the laboratory. Laboratory management evaluates the risks and benefits of change and includes in its implementation of change process, actions to minimize or eliminate any risk. The types of changes for which risk are considered and managed include: infrastructure change, change in analytical service offerings, certification or accreditation status, instrumentation, LIMS changes, and changes in key personnel.

#### 4.13 Control of Records

A record is a piece of evidence about the past, especially an account of an act or occurrence kept in writing or some other permanent form. Laboratory records document laboratory activities and provide evidence of conformity to the requirements established in the quality management system. These records may be hardcopy or electronic on any form of media.




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#### 4.13.1 General Requirements

##### 4.13.1.1 Procedure

The requirements for control of records is specified in corporate policy ENV-POL-CORQ-0013 *Record Management*. The procedure used to implement the policy is described in laboratory SOP ENV-SOP-CAR-0012 *Document Control and Management*.

The policy is established to assure quality and technical records are identified, retained, indexed, and filed to allow for retrieval during the entire retention time frame. During storage, records are kept secure and protected from deterioration. At the end of the retention time, the records are disposed of properly in order to maintain client confidentiality and to protect the interests of the company.

In general, laboratory records fall into three categories: quality, technical, and administrative.

Examples of each are provided in the following table:

Record Type	Includes Records of:
Quality	Document Types listed in SOP ENV-SOP-CORQ-0015 Audits: Internal and External Certificates and Scopes of Accreditation Corrective & Preventive Action Management Review Data Investigations Method Validation Instrument Verification Training Records
Technical	Raw Data Logbooks Certificates of Traceability Analytical Record Test Reports & Project Information Technical Training Records & Demonstration of Capability
Administrative	Personnel Records Finance/Business

##### 4.13.1.2 Record Legibility and Storage

Records are designed to be legible and to clearly identify the information recorded. Manual entries are made in indelible ink; automated entries are in a typeface and of sufficient resolution to be read. The records identify laboratory personnel that performed the activity or entered the information. Records are archived and stored in a way that they are retrievable. Access to archived records is controlled and managed.

For records stored electronically, the capability to restore or retrieve the electronic record is maintained for the entire retention period. Hardcopy records are filed and stored in a suitable environment to protect from damage, deterioration, or loss. Hardcopy records may be scanned to PDF for retention. Scanned records must be checked against the hardcopy to verify the scan is complete and legible.




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Administrative records are kept for a minimum of 5 years and technical and quality records are kept for 10 years unless otherwise specified by the client or regulatory program.

The date from which retention time is calculated depends on the record. In general, the retention time of technical records of original observation and measurement is calculated from the date the record is created. If the technical record is kept in a chronological logbook, the date of retention may be calculated from the date the logbook is archived. The retention time of test reports and project records, which are considered technical records, is calculated from the date the test report was issued. The retention time of quality records is usually calculated from the date the record is archived.

Refer to the record management policy and the laboratory SOP for more information.

#### 4.13.1.3 Security

The laboratory is a secure facility and access to records is restricted to laboratory personnel.

#### 4.13.1.4 Electronic Records

The data systems used to store electronic records is backed up in accordance with laboratory SOP ENV-SOP-CAR-0064 *Data and Records Archival*. Access to archived records stored electronically is maintained by personnel responsible for management of the electronic system.

#### 4.13.1.5 Electronic Signature Policy

Work done by ENV locations include activities that require the application of a signature. Some of this work product is in electronic format and signatures are applied electronically.

The Electronic Signatures in Global and National Commerce Act (E-Sign Act) clarifies that electronic signatures are legally valid and enforceable under United States law.

ENV's policy for use and application of electronic signatures is specified in corporate policy ENV-POL-CORQ-0014 *Electronic Signature Policy*.

All employees of ENV, including temporary and contract personnel, must sign an Electronic Signature Agreement to acknowledge that they understand and accept that work activities performed by them may be authenticated with application of an electronic signature and that electronic signature has the same validity as a handwritten signature. Their signed agreement also confirms the individual has read and understands the policy and agrees to abide by the requirements for use of electronic signature stated in the policy.

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#### 4.13.2 Technical Records

In addition to the requirements specified in subsections 4.13.1.1 through 4.13.1.5, the requirements in the following subsections also apply to technical records.



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#### 4.13.2.1 Description

Technical records are the accumulation of data and information generated from the analytical process. These records may include forms, worksheets, workbooks, checklists, notes, raw data, calibration records, final test reports, and project record. The accumulated record essentially needs to provide adequate detail to historically reconstruct the process and identify the personnel that performed the tasks associated with a test result.

#### 4.13.2.2 Real Time Recordkeeping

Personnel are instructed and expected to always record observations, data, and calculations at the time they are made. Laboratory managers are responsible to assure that data entries, whether made electronically or on hardcopy, are identifiable to the task.

#### 4.13.2.3 Error Correction

Errors in records must never be erased, deleted or made illegible. Use of correction fluid, such as white-out is prohibited. In hardcopy records, the error is corrected by a single strike through the original entry and the new entry recorded alongside or footnoted to allow for readability. Corrections are initialed and dated by the person making the correction. If the correction is not self-explanatory, a reason for the correction is recorded.

For electronic records, equivalent measures of error correction or traceability of changes made is kept. For example, audit trails provide records of change.

Maintenance of proper practices for error correction is monitored through the tiered data review process described in Section 5.9.3. Laboratory records are reviewed throughout the data review process. Individuals performing these reviews flag errors that are not properly corrected and bring these to the attention of the department manager or supervisor of the work area in which the record was generated so that the problem may be addressed and corrected with the individual(s) that did not make the correction properly.

### 4.14 Audits

The laboratory performs internal systems and technical audits to assess implementation of the QMS and compliance to this manual and to procedures, such as policy, SOP and SWI. Since the processes in this manual are based on the relevant quality system standards and regulatory and accreditation/certification program requirements the laboratory provides services for, the internal audits also assess on-going compliance to these programs.

The laboratory is also audited by external parties such as regulatory agencies, customers, consultants and non-government assessment bodies (NGAB).

Information from internal and external audits is used by laboratory management to address compliance concerns and opportunities where improvement will increase the reliability of data.

Deficiencies, observations and recommendations from audits are managed by the local QM using the laboratory's formal CAPA process. See Section 4.11 for more information.





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#### 4.14.1 Internal Audit

The laboratory's internal audit program is managed by the local QM in accordance with an audit plan established at the beginning of each calendar year. The schedule is prepared to assure that all areas of the laboratory are reviewed over the course of the year. Conformance to the schedule is reported to both laboratory management and corporate quality personnel in a monthly QA report prepared by the quality manager.

Although the local QM creates the audit schedule, it is the shared responsibility of local management to assure the schedule is maintained. Laboratory supervisors cooperate with the quality personnel to provide the auditors with complete access to the work area, personnel, and records needed.

Internal audits are performed by personnel approved by the quality manager. In general, personnel may not audit their own activities unless it can be demonstrated that an effective and objective audit will be carried out. The auditor must be trained, qualified, and familiar enough with the objectives, principles, and procedures of laboratory operations to be able to perform a thorough and effective evaluation.

The laboratory's internal audit program ensures daily practice is consistent with laboratory's SOPs and to verify SOPs are compliant with policy and procedures. Test reports are audited to verify the final product is consistent with customer/project requirements, the work was carried out in accordance with policy and SOPs, the SOP complies with the cited reference method, test results are accurate, and of known and documented quality and properly qualified, when necessary.

Special audits are performed ad hoc to follow up on a specific issue such as a client complaint, negative feedback, concerns of data integrity or ethics, or a problem identified through other audits. Special audits may be scheduled or unscheduled. Unscheduled internal audits are conducted whenever doubts are cast on the laboratory's compliance with regulatory requirements or its own policies and procedures. These unscheduled internal audits may be conducted at any time and may be performed without an announcement to laboratory personnel.

When observations and findings from any audit (internal or external) cast doubt on the validity of the laboratory's testing results, the laboratory takes immediate action to initiate investigate the problem and take corrective action. (Also see 4.11 and 4.16)

The laboratory's internal audit program and auditing procedures are further described in laboratory SOP ENV-SOP-CAR-0043 *Internal and External Audits*.

##### 4.14.1.1 Corporate Compliance Audit

ENV locations are also periodically audited by corporate quality personnel to assess the location's compliance to ENV's quality management program and to evaluate the effectiveness of implementation of the policies and procedures that make up the quality management system. The purpose of the compliance audit is to identify risks and opportunities and to assist laboratory management achieve the goals and objectives of the company's quality program.



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#### **4.15 Management Review**

The management team formally reviews the management system of each location under their purview on an annual basis to assess for on-going suitability and effectiveness and to establish goals, objectives, and action plans for the upcoming year.

The process and procedures used to conduct this review are outlined in corporate SOP ENV-SOP-CORQ-0005 *Management Review*.

At a minimum, the following topics are reviewed and discussed:

- The on-going suitability of policies and procedures including EHS and waste management;
- Reports from managerial and supervisory personnel including topics discussed at regular management meetings held throughout the year;
- The outcome of recent internal audits;
- Corrective and preventive actions;
- Assessments by external bodies;
- The results of interlaboratory comparisons or proficiency tests;
- Changes in the volume and type of the work;
- Customer and personnel feedback, including complaints;
- Effectiveness of improvements / preventive actions made since last review;
- Internal and external issues of relevance and risk identification;
- A review of the status of actions from prior management reviews; and
- Other relevant factors, such as quality control activities, resources, and staff training.

The discussion and results of this review are documented in a formal report prepared by laboratory management. This report includes a determination of the effectiveness of the management system and its processes; goals and objectives for improvements in the coming year with timelines and responsibilities, and any other need for change.

Goals and action items from annual management systems review are shared with local employees and with corporate management to highlight focus areas for improvement in addition to areas in which the laboratory has excelled.

#### **4.16 Data Integrity**

ENV's procedures for the investigation and response to events that may affect data integrity are described in the corporate SOPs for data inquiries and data recall and corrective and preventive action, however named.

Customers whose data are affected by these events are notified in a timely manner, usually within 30 days after the impact of the problem is understood. Some accreditation programs also require notification to the accreditation body (AB) within a certain timeframe from date of discovery when



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the underlying cause of the issue impacts accreditation. The laboratory follows any program or project specific client notification requirements for notification, when applicable.

## 5.0 TECHNICAL REQUIREMENTS

### 5.1 General

Many factors contribute to the correctness and reliability of the technical work performed by the laboratory. These factors fall under these general categories:

- Human Performance
- Facility and Environmental Conditions
- Test Method Performance and Validation
- Measurement Traceability
- Handling of Samples

The impact of each of these factors varies based on the type of work performed. To minimize negative effects from each of these factors, the laboratory accounts for the contribution from each of these categories when developing test method and process (administrative) SOPs, evaluating personnel qualifications and competence, and in the selection of equipment and supplies used.

### 5.2 Personnel

#### 5.2.1 Personnel Qualifications

The laboratory's program for personnel management is structured to ensure personnel are selected, qualified, and competent to perform the roles and responsibilities of their position based on education, experience, and training.

Qualifications, duties, responsibilities, and authorities of each position are specified in job descriptions maintained by corporate HR (See Section 5.2.4). These job descriptions provide the general basis for the selection of personnel for hire and are used by the laboratory to communicate to personnel the duties, responsibilities, and authorities of their position.

The term "personnel" refers to individuals employed by the laboratory directly as full-time, part-time, or temporary, and individuals employed by the laboratory by contract, such as through an employment agency. The term "personnel" is used interchangeably with the term "employee" throughout this manual. For purposes of this manual, these terms are equivalent.

The personnel management program is structured to establish and maintain records for each of the following:

- Selection of personnel;
- Training of personnel;
- Supervision of personnel;
- Authorization of personnel; and
- Monitoring Competence of personnel.




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### 5.2.1.1 Competence

Competence is the ability to apply a skill or series of skills to complete a task or series of tasks correctly within defined expectations.

Competence for technical personnel authorized by ENV to provide opinion and interpretation of data to customers also includes the demonstrated ability to:

- Apply knowledge, experience, and skills needed to safely and properly use equipment, instrumentation, and materials required to carry out testing and other work activities in accordance with manufacturer specifications and laboratory SOPs;
- Understand and apply knowledge of general regulatory requirements necessary to achieve regulatory compliance in work product; and
- Understand the significance of departures and deviations from procedure that may occur during the analytical testing process and the capability and initiative to troubleshoot and correct the problem, document the situation and decision-making process, and to properly qualify the data and analytical results.

The laboratory's requirements for the competence of personnel (education, qualification, work experience, technical skills, and responsibilities) are specified in job descriptions created by management and kept by human resources (HR). The job description provides the basis for the selection of personnel for each position.

An employee is considered competent when he/she has completed required training.

The policies and standard operating procedures (SOPs) for the following topics are established by management as minimum required training for all personnel:

- Ethics and Data Integrity
- Quality Manual
- Safety Manual
- Quality Management System
- Technical Process and Procedure relevant to their job tasks
- Successful Demonstration of Capability (DOC) – Analytical Personnel Only

Personnel are initially authorized competent to independently carry out their assigned duties when required training is complete and documented.

Records of required training and qualification provide the record of competence for the individual. Qualification records may include but are not limited to diploma, transcripts, and curriculum vitae (CV).

The on-going competence of each employee is monitored by laboratory management through on-the-job performance. Analytical employees are also required to successfully complete another demonstration of capability for each test method performed on an annual basis.




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## 5.2.2 Training (Required)

ENV's training requirements are outlined in policies COR-POL-0023 *Mandatory Training Policy*, COR-POL-0004 *Ethics Policy*, and laboratory SOP INSERT ENV-SOP-CAR-0057 *Training and Employee Orientation*.

### 5.2.2.1 Required Training

The laboratory's training program includes these elements:

- Scheduling of Required Training
- Execution of Required Training
- Documentation and Tracking of Required Training
- Evaluation of Training Effectiveness

Required training is delivered using various methods that incorporate techniques that appeal to the main learning styles: visual, aural, linguistic, and kinesthetic. Techniques include, on-the-job, instructor-led, self-study, eLearning, and blended.

The employee's direct supervisor is responsible for oversight of completion of the employee's required training and for providing adequate time to the employee to complete training assignments. Both the supervisor and employee are responsible to make sure the employee's training status and training records for required training are current and complete.

The status of completion of required training is monitored by the local QM, who provides the status to the GM at least monthly or more frequently, if necessary, to ensure required training for personnel is complete and up to date.

The following subsections describe the elements of ENV's required training program.

#### 5.2.2.1.1 New Hire Training

New hire training requirements apply to new personnel and to existing employees starting in a new position or different work area.

Required new hire training includes each of the following:

- Ethics and Data Integrity (See 5.2.2.1.3)
- Quality Manual / Quality Management System (See 5.2.2.1.4)
- Safety Manual and any training requirements specified in the manual.
- Policies & SOPs relevant to their job tasks
- Technical personnel that test samples must also successfully complete an initial demonstration of capability (IDOC) for the test methods performed before independently testing customer samples. (See 5.2.2.1.5). Independent testing means handling of client samples without direct supervision of the work activity by the supervisor or a qualified trainer.




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All required training must be current and complete before the employee is authorized to work independently. Until then, the employee's direct supervisor is responsible for review and acceptance of the employee's work product.

**5.2.2.1.2 On-Going Training**

Personnel receive on-going training in each of the following topics:

- Ethics and Data Integrity (See 5.2.2.1.3)
- Quality Manual / Quality Management System (See 5.2.2.1.4)
- Safety Training
- Changes to Policies & SOPs
- Technical employees that carry out testing must also successfully complete on-going demonstration of capability (CDOC) for all test methods performed on an annual basis. (See 5.2.2.1.5)

Personnel are expected to maintain their DOCs current and complete and to complete training assignments in a timely manner.

**5.2.2.1.3 Ethics and Data Integrity Training**

Data integrity training is provided to all new personnel and refresher data integrity training is provided to all employees on an annual basis. Personnel are required to acknowledge they understand that any infractions of the laboratory data integrity procedures will result in a detailed investigation that could lead to very serious consequences including immediate termination, debarment, or civil/criminal prosecution.

Completion of data integrity training is documented by employee signature to provide evidence that the employee has participated in training on this topic and understand their obligations related to data integrity.

The following topics and activities are covered:

- Policy for honesty and full disclosure in all analytical reporting;
- Prohibited Practices;
- How and when to report data integrity issues;
- Record keeping. The training emphasizes the importance of proper written documentation on the part of the analyst with respect to those cases where analytical data may be useful, but are in one sense or another partially nonconforming;
- Training Program, including discussion regarding all data integrity procedures;
- Data integrity training documentation;




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- In-depth procedures for data monitoring; and
- Specific examples of breaches of ethical behavior such as improper data manipulations, adjustments of instrument time clocks, and inappropriate changes in concentrations of standards.

All PAS personnel, including contract and temporary, are required to sign an “Attestation of Ethics and Confidentiality” at the time of employment and during annual refresher training. This document clearly identifies inappropriate and questionable behavior. Violations of this document result in serious consequences, including prosecution and termination, if necessary.

Also see SOP-ENV-COR-POL-0004 *Ethics Policy* for more information.

#### 5.2.2.1.4 **Management System Document Training**

The Quality Manual and ENV manuals, policies, and SOPs are the documents used by regulatory bodies and PAS customers to verify the laboratory’s capability, competency, and compliance with their requirements and expectations.

In addition to on-the-job training, employees must have a signed Read and Acknowledgement Statement (R&A) on record for the laboratory quality manual, and the policies and SOPs relating to his/her job responsibilities. This statement, whether signed by the employee electronically or by wet signature, confirms that the employee has received, read, and understands the content of the document, that the employee agrees to follow the document when carrying out their work tasks; and the employee understands that unauthorized change to procedures in an SOP is not allowed except in accordance with the SOP departure policy (See 4. 9.1).

See SOP ENV-CORQ-0016 *Standard Operating Procedures and Standard Work Instructions* for more information.

#### 5.2.2.1.5 **Demonstration of Capability (DOC)**

Demonstration of capability is based on the employee’s capability to achieve acceptable precision and accuracy for each analyte reported by the laboratory for the test method using the laboratory’s test method SOP.

Technical employees must complete an initial demonstration of capability (IDOC) prior to independent work on client samples analyzed by the test methods they perform. After successful IDOC, the employee must demonstrate continued proficiency (CDOC) for the test method on an annual basis. If more than a year has passed since the employee last performed the method; then capability must be re-established with an IDOC.




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Records of IDOC and CDOC are kept in the employee's training file.

#### **5.2.2.2 Effectiveness of Training**

The results of the performance measures used to identify training needs are the same measures used by the laboratory to measure effectiveness of the training program. Improvement in key performance measures suggest the training program is successful (See 5.2.2.1).

Effectiveness of individual employee training is measured by their demonstrated ability to comprehend the training material and apply knowledge and skills gained to their job task. Measurements include but are not limited to:

- Testing of the employee's knowledge of the quality management system, policies, and technical and administrative procedures through various mechanisms, such as quizzes, observation, and interviews.
- Demonstrated ability to convey information correctly and factually in written and verbal communication to internal and external parties.
- Demonstrated ability to carry out tasks in accordance with SOPs and other work instructions.
- Demonstrated ability to make sound decisions based on guidance and information available.
- Demonstrated initiative to seek help or guidance when the employee is unsure of how to proceed.

#### **5.2.2.3 Supplemental Learning**

Supplemental learning objectives are established for newly hired personnel to aid in their development of administrative and technical skills. These learning objectives and materials, referred to as Learning Plans (LP), are created and maintained by ENV's 3P program and managed by the employee's direct supervisor.

In addition to LPs, PAS maintains a wide variety of supplemental learning courses that are made available to all PAS employees for professional development. These learning materials, maintained by PAS's corporate training personnel, are accessed via the company's employee portal, PaceConnect. The learning may be self-initiated based on an employee's interest or may be assigned to the employee at the discretion of management as professional development as part of an employee's annual goals. Supplemental learning courses and learning plan activities are not prerequisites for competency (Section 5.2.1.1) and are not part of the required QMS training specified in Section 5.2.2.1.

### **5.2.3 Personnel Supervision**

Every employee is assigned a direct supervisor, however named, who is responsible for their supervision. Supervision is the set of activities carried out by the supervisor to oversee the progress and productivity of the employees that report to them.

General supervisory responsibilities may include but are not limited to:






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- Hiring Employees
- Training Employees
- Performance Management
- Development, oversight, and execution of personnel training plans
- Monitoring personnel work product to assure the work is carried out in accordance with this quality manual, policies, SOPs, and other documents that support the quality management system.

#### 5.2.4 Job Descriptions

Job Descriptions that define the required education, qualifications, experience, skills, roles and responsibilities, and reporting relationships for each PAS position are established by top management and kept by corporate HR. PAS laboratories use these job descriptions as the source of positions and job titles for the laboratory. The job descriptions apply to employees who are directly employed by PAS, part-time, temporary, technical and administrative and by those that are under contract with PAS through other means.

The job descriptions include the education, expertise, and experience required for the position and the responsibilities and duties, including any supervisory or managerial duties assigned to the position.

#### 5.2.5 Authorization of Technical Personnel

Laboratory management authorizes technical personnel to perform the technical aspects of their position after it has been verified that the employee meets the qualifications for the position, has successfully completed required training (Section 5.2.2.1), and the employee has completed initial demonstrated capability (Section 5.2.2.1.5). After initial authorization, technical personnel are expected to maintain a current and complete training record, demonstrate on-going capability at least annually for each test method performed, and produce reliable results through accurate analysis of certified reference materials, proficiency testing samples, and/or routine quality control samples in order to remain authorized to continue to perform their duties.

Records to support authorization including, education, experience, training, and other evaluations are kept by the laboratory.

### 5.3 Accommodations and Facilities

#### 5.3.1 Facilities

The laboratory is designed to support the correct performance of procedures and to not adversely affect measurement integrity or safety. Access to the laboratory is controlled by various measures, such as card access, locked doors, main entry. Visitors to the laboratory are required to sign-in and to be escorted by laboratory personnel during their visit. A visitor is any person that is not an employee of the laboratory.

#### 5.3.2 Environmental Conditions

The laboratory is equipped with energy sources, lighting, heating, and ventilation necessary to facilitate proper performance of calibrations and tests. The laboratory ensures that



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housekeeping, electromagnetic interference, humidity, line voltage, temperature, sound and vibration levels are appropriately controlled to ensure the integrity of specific measurement results and to prevent adverse effects on accuracy or increases in the uncertainty of each measurement.

Environmental conditions are monitored, controlled, and recorded as required by the relevant specifications, methods, and procedures. Laboratory operations are stopped if it is discovered that the laboratory's environmental conditions jeopardize the analytical results.

#### 5.3.3 Separation of Incompatible Activities

The layout and infrastructure of each work area including air handling systems, power supplies, and gas supplies of each laboratory work area is specifically designed for the type of analytical activity performed. Effective separation between incompatible work activities is maintained. For example, sample storage, preparation, and chemical handling for volatile organic analysis (VOA) is kept separate from semi-volatile organic (SVOA).

The laboratory separates samples known or suspected to contain high concentration of analytes from other samples to avoid the possibility for cross-contamination. If contamination is found, the source of contamination is investigated and resolved in accordance with laboratory SOPs.

#### 5.3.4 Laboratory Security

Security is maintained by controlled access to the building and by surveillance of work areas by authorized personnel. Access is controlled to each area depending on the required personnel, the sensitivity of the operations performed, and possible safety concerns. The main entrance is kept unlocked during normal business hours for visitors and is continuously monitored by laboratory staff. All visitors must sign a visitor's log, and a staff member must accompany them during the duration of their stay.

#### 5.3.5 Good Housekeeping

The laboratory ensures good housekeeping practices in work areas to maintain a standard of cleanliness necessary for analytical integrity and personnel health and safety. Minimally, these measures include regular cleaning of the work area. Where necessary, areas are periodically monitored to detect and resolve specific contamination and/or possible safety issues.

### 5.4 Test Methods

#### 5.4.1 General Requirements

The laboratory uses test methods and procedures that are appropriate for the scope of analytical services the laboratory offers.

Instructions on the use and operation of equipment and sample handling, preparation, and analysis of samples are provided in SOPs. The instructions in SOPs may be supplemented with other documents including but not limited to, standard work instructions (SWI), manuals, guides, project documents and reference documents.

These documents are managed using the procedures described in SOP ENV-SOP-CORQ-0015 *Document Management and Control* and SOP ENV-SOP-CORQ-0016 *Standard Operating Procedures and Standard Work Instructions*.




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#### 5.4.2 Method Selection

The test methods and protocols used by the laboratory are selected to meet the needs of the customer, are appropriate for the item tested and intended use of the data, and to conform with regulatory requirements when regulatory requirements apply.

In general, the test methods offered are industry accepted methods published by international, regional, or national standards. The laboratory bases its procedure on the latest approved edition of a method unless it is not appropriate or possible to do so, or unless regulatory requirements specify otherwise.

The laboratory confirms that it can perform the test method and achieve desired outcome before analyzing samples (see section 5.4.5). If there is a change in the published analytical method, then the confirmation is repeated.

When a customer does not specify the test method(s) to be used, the laboratory may suggest test methods that are appropriate for the intended use of the data and the type of samples to be tested. The laboratory will also inform customers when test methods requested are considered inappropriate for their purpose and/or out of date. This discourse takes place during review of analytical service requests (See Section 4.4).

#### 5.4.3 Laboratory Developed Methods

A laboratory developed method is a method developed from scratch (no published source method), a procedure that modifies the chemistry from the source method, or a procedure that exceeds the scope and application of the source method.

Laboratory developed methods must be validated prior to use (see section 5.4.5) and the procedure documented in a test method SOP.

The requirements for non-standard methods (Section 5.4.4) also apply to laboratory developed methods.

#### 5.4.4 Non-standard Methods

A non-standard method is a method that is not published or approved for use by conventional industry standards for the intended purpose of the data. Non-standard methods must be validated prior to use (see section 5.4.5) and the procedure developed and documented in a test method SOP.

At a minimum, the following information must be included in the procedure:

- Title / Identification of Method;
- Scope and Application;
- Description of the type of item to be analyzed;
- Parameters or quantities and ranges to be determined;
- Apparatus and equipment, including technical performance requirements;
- Reference standards and reference materials required;
- Environmental conditions required and any stabilization period needed; and
- Description of the procedure, including:




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- Affixing identification marks, handling, transporting, storing and preparing of items;
- Checks to be made before the work is started;
- Verifying equipment function and, where required, calibrating and/or adjusting the equipment before each use;
- Method of recording the observations and results;
- Any safety measures to be observed;
- Criteria and/or requirements for approval/rejection;
- Data to be recorded and method of analysis and presentation; and
- Uncertainty or procedure for estimating uncertainty.

Use of a non-standard method for testing must be agreed upon with the customer. The agreement, which is retained by the laboratory in the project record, must include the specifications of the client's requirements, the purpose of testing, and their authorization for use of the non-standard method.

#### 5.4.5 Method Validation

##### 5.4.5.1 Validation Description

Validation is the process of conformation and the provision of objective evidence that the stated requirements for a specific method/procedure are fulfilled.

The laboratory's requirements and procedures for method validation are outlined in SOP ENV-SOP-CORQ-0011 *Method Validation and Instrument Verification*.

##### 5.4.5.2 Validation Summary

All test methods offered by the laboratory are validated before use to confirm the procedure works and the data and results achieved meet the goals for the method and repeated when there are major changes to the laboratory procedure.

Results of validation are retained are kept in accordance with method validation SOP and the corporate policy ENV-CORQ-POL-0013 *Record Management*.

##### 5.4.5.3 Validation of Customer Need

The validation process includes review of accuracy, precision, sensitivity, selectivity, linearity, repeatability, reproducibility, robustness, and cross-sensitivity of the procedure against general customer needs to ensure the laboratory's procedure will meet those needs.

The following subsections highlight some of these concepts:

###### 5.4.5.3.1 Accuracy

Accuracy is the degree to which the result of a measurement, calculation, or specification conforms to the correct value or a standard. When the result recovers within a range from the known




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value (control limit); the result generated using the laboratory's test method SOP is considered accurate.

**5.4.5.3.2 Precision**

Precision refers to the closeness of two or more measurements to each other. It is generally measured by calculating the relative percent difference (RPD) or relative standard deviation (RSD) from results of separate analysis of the same sample. Precision provides information about repeatability, reproducibility, and robustness of the laboratory's procedure.

**5.4.5.3.3 Limits of Detection (LOD) (Chemistry)**

The LOD is the minimum result which can be reliably discriminated from a blank with a predetermined confidence level. The LOD establishes the limit of method sensitivity and is also known as the detection limit (DL) or the method detection limit (MDL).

Values below the LOD cannot be reliably measured and are not reported by the laboratory unless otherwise specified by regulatory program or test method.

The LOD is established during method validation and after major changes to the analytical system or procedure that affect sensitivity are made.

**5.4.5.3.4 Limits of Quantitation (LOQ) and Reporting Limit (RL)**

The LOQ is the minimum level, concentration, or quantity of a target analyte that can be reported with a specified degree of confidence. The LOQ is established at the same time as the LOD.

The LLOQ is the value of the lowest calibration standard included in the calibration curve. The LLOQ establishes the lower limit of quantitation.

The LOQ and LLOQ represent quantitative sensitivity of the test method.

- The LOQ must always be equal to or greater than the LLOQ and the LLOQ must always be greater than the LOD.
- Any reported value (detect or non-detect) less than the LLOQ is a qualitative value.

The RL is the value to which the presence of a target analyte is reported as detected or not detected. The RL is project-defined based on project data quality objectives (DQO). In the absence of project specific requirements, the RL is usually set to the LOQ or the LLOQ.



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The laboratory's procedures for LOD/LOQ determination is detailed in laboratory SOP ENV-SOP-CAR-0021 *Determination of Limit of Detection and Limit of Quantitation*.

The local SOP is based on guidance provided by corporate quality and must comply with 40CFR 136 Appendix B and the TNI Standard.

#### **5.4.5.3.5 Linearity**

Linearity is a mathematical concept applied to calibration models that employ multiple points to establish a calibration range used for quantitative analysis. Linearity is measured differently based on the calibration model. In general, if linearity is demonstrated then the slope of the response of standards are sufficiently close to one another. The accuracy of the linear regression and non-linear curves is verified by checking percent error or relative standard error (RSE), which is the process of refitting calibration data back to the model to determine if the results are accurate. For linear curves that use average calibration or response factor, error is measured by relative standard difference (RSD).

Linearity also establishes the range of quantitation for the test method used which directly impacts the sensitivity of the test method and uncertainty in measurement results. As previously noted, the LLOQ establishes the lower limit of quantitation. Similarly, the upper range of linearity establishes the upper limit of quantitation. In general, results outside of this range are considered qualitative values. However, some inorganic methods allow for extension of the linear range above the upper limit of quantitation when accuracy at this value is verified.

Linearity can also be used to establish repeatability, reproducibility, and robustness of the laboratory's test method. When linearity is demonstrated using a specific calibration model during method validation, then use of this same calibration model to achieve linearity on a day to day basis confirms the laboratory's method is repeatable, reproducible, and robust.

#### **5.4.5.3.6 Demonstration of Capability (DOC)**

The DOC performed during method validation confirms that the procedure demonstrated acceptable precision and accuracy. The procedure used for DOC for method validation is the same as described in section 5.2.2.1.5 for demonstration of analyst capability.

#### **5.4.6 Measurement Uncertainty**

The laboratory provides an estimate of uncertainty in testing measurements when required or on client request. In general, the uncertainty of the test method is reflected in the control limits used to evaluate QC performance. (See 5.9.1.1.9). ISO/IEC supports this concept with language that reads when a well-recognized test method specifies limits to the values of the



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major source of uncertainty of measurement and specifies the form of presentation of calculated results, the laboratory has satisfied the requirements on analytical uncertainty by following the test method and reporting instructions.

When measurement uncertainty cannot be satisfied through control limits, the laboratory will provide a reasonable estimation of uncertainty. A reasonable estimation is based on knowledge of method performance and previous experience. When estimating the analytical uncertainty, all uncertainty components which are of importance in the given situation are taken into account.

#### 5.4.7 **Control of Data**

The laboratory has policies and processes in place to assure that reported data is free from calculation and transcription errors, that quality control is reviewed and evaluated before data is reported, and to address manual calculation and integration.

##### 5.4.7.1 **Calculations, Data Transfer, Reduction and Review**

Whenever possible, calculations, transfer of data, and data reduction are performed using validated software programs (See 5.4.7.2).

If manual calculations are performed, the results of these calculations are verified during the data review process outlined in section 5.9.3.

###### 5.4.7.1.1 **Manual Integration**

The laboratory's policy and procedures for manual integration are provided in corporate SOP ENV-SOP-CORQ-0006 *Manual Integration*.

This SOP includes the conditions under which manual integration is allowed and the requirements for documentation.

Required documentation of manual integration includes:

- complete audit trail to permit reconstruction of before and after results;
- identification of the analyst that performed the integration and the reason the integration was performed; and
- identification of the individual(s) that reviewed the integration and verified the integration was done and documented in compliance with the SOP.

##### 5.4.7.2 **Use of Computers and Automated Acquisition**

Whenever possible the laboratory uses software and automation for the acquisition, processing, recording, reporting, storage, and/or retrieval of data.

Software applications developed by PAS are validated by corporate IT for adequacy before release for general use. Commercial off the shelf software is considered sufficiently validated when the laboratory follows the manufacturer or vendor's manual for set-up and use. Records of validation are kept by the corporate




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information technology (IT) group or by the local laboratory, whichever group performed the validation.

The laboratory's process for the protection of data stored in electronic systems include:

- Individual user names and passwords for Laboratory Information Management Systems (LIMS) and auxiliary systems used to store or process data.
- Employee Training in Computer Security Awareness
- Validation of spreadsheets used for calculations to verify formulas and logic yield correct results and protection of these cells to prevent unauthorized change.
- Operating system and file access safeguards
- Protection from Computer Viruses
- Regular system backup; and testing of retrieved data

The laboratory's process for software development and testing process includes:

- Verification the software application works as expected and is adequate for use and fulfills compliance requirements, such as the need to record date/time of data generation.
- Change control to assure requests for changes are reviewed and approved by management before the change is made.
- Communication channels to assure all staff are aware of changes made.
- Version Control and maintenance of historical records.

These procedures are detailed in laboratory SOPs ENV-SOP-CAR-0050 *Spreadsheet Validation*, and Policies COR-POL-0010 *IT Policy* and COR-POL-0012 *Pace User Virus Protection Policy*.

## 5.5 Equipment

### 5.5.1 Availability of Equipment

The laboratory is furnished with all equipment and instrumentation necessary to correctly perform the tests offered in compliance with the specifications of the test method and to achieve the accuracy and sensitivity required.

### 5.5.2 Calibration

Equipment and instrumentation are checked prior to use to verify it performs within tolerance for its intended application.

Laboratory management is made aware of the status of equipment and instrumentation and any needs for either on a daily basis. This information is obtained during laboratory walkthroughs (LDM) that are conducted as part of the laboratory's lean program.





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#### **5.5.2.1 Support Equipment**

The laboratory confirms support equipment is in proper working order and meets the specifications for general laboratory use prior to placement in service with intermediate checks thereafter. Equipment that does not meet specifications is removed from service until repaired or replaced. Records of repair and maintenance activities are maintained.

Procedures used to carry out and record these checks are outlined laboratory in SOP ENV-SOP-CAR-0045 *Support Equipment*.

#### **5.5.2.2 Analytical Instruments**

Analytical instruments are checked prior to placement in service in accordance with SOP ENV-SOP-CORQ-0011 *Method Validation and Instrument Verification*. After the initial service date, the calibration of instruments and verification calibration is performed in accordance with local test method SOPs.

The calibration procedures in the test method SOPs comply with the requirements for acceptable calibration practices outlined in corporate policy ENV-POL-CORQ-0005 *Acceptable Calibration Practices*, the reference methods, and any applicable regulatory or program requirements.

#### **5.5.3 Equipment Use and Operation**

Equipment is operated and maintained by laboratory personnel that are trained on the test method SOP. Up-to-date instructions and procedures for the use and maintenance of analytical equipment are included in SOPs and/or supplemental documents such as standard work instructions (SWI) or instrument manuals which are made readily accessible in the work area to all laboratory personnel.

#### **5.5.4 Equipment Identification**

The laboratory uniquely identifies equipment by serial number or any other unique ID system, when practical. The identifier is included in the equipment list maintained by the quality department.

#### **5.5.5 Equipment Lists and Records**

##### **5.5.5.1 Equipment List**

The laboratory maintains a master list of equipment that includes information about the equipment including a description, manufacturer, serial number, date placed in service, condition when received, identity, and the current location in the laboratory. The date of purchase is tracked by the procurement record. The equipment list(s) for each location covered by this manual is provided in Appendix E.

##### **5.5.5.2 Equipment Records**

In addition to the equipment list, the laboratory maintains records of equipment that include:

- Verification that equipment conforms with specifications.




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- Calibration records including dates, results, acceptance criteria, and next calibration dates.
- Maintenance plan and records
- Records of damage, malfunction, or repair

The laboratory follows an equipment maintenance program designed to optimize performance and to prevent instrument failure which is described in individual test method SOPs.

The maintenance program includes routine maintenance activities which are performed as recommended by the manufacturer at the frequency recommended and non-routine maintenance, which is performed to resolve a specific problem such as degradation of peak resolution, shift in calibration relationship, loss of sensitivity, or repeat failure of instrument performance checks and quality control samples.

Maintenance is performed by laboratory personnel or by outside service providers.

All maintenance activities performed by laboratory personnel are recorded by the individual(s) that performed the activity at the time the maintenance was performed in an instrument maintenance log.

The maintenance record minimally includes the date of maintenance, the initials of the person(s) performing maintenance, a description of the activity performed, why (when the maintenance is non-routine), and the return to analytical control. When maintenance is performed by an external vendor, the laboratory staples the service record into hardcopy maintenance logs or scans the record for easy retrieval. The laboratory provides unrestricted access to instrument maintenance logs in order to promote good instrument maintenance and recordkeeping practices.

If an instrument must be moved, the laboratory will use safe practices for handling and transport to minimize damage and contamination.

#### 5.5.6 **Out of Service Protocol**

Equipment that has been subjected to overloading, mishandling, gives suspect results, has been shown to be defective, or is performing outside of specified limits is taken out of service and either removed from the work area or labeled to prevent accidental use until it has been repaired and verified to perform correctly.

When analytical equipment is taken out of service, the laboratory examines the potential effect it may have had on previous analytical results to identify any non-conforming work. (See section 4.9).

#### 5.5.7 **Calibration Status**

The laboratory labels support equipment to indicate calibration status, whenever practicable or otherwise maintains the calibration status in a visible location in the work area. These procedures are described in laboratory SOP ENV-SOP-CAR-0045 *Support Equipment*.



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The calibration status of analytical instruments is documented in the analytical record. Analysts verify on-going acceptability of calibration status prior to use and with instrument performance check standards. These procedures are described in test method SOPs.

**5.5.8 Returned Equipment Checks**

When equipment or an instrument is sent out of the laboratory for service, the laboratory ensures that the function and calibration status of the equipment is checked and shown to be satisfactory before the equipment is returned to service. These procedures are outlined in SOP ENV-SOP-CORQ-0011 *Method Validation and Instrument Verification*.

**5.5.9 Intermediate Equipment Checks**

The laboratory performs intermediate checks on equipment to verify the on-going calibration status. For example, most test methods require some form of continuing calibration verification check and these procedures are included in the test method SOP. Periodic checks of support equipment are also performed; see appendix E for more information.

**5.5.10 Safeguarding Equipment Integrity**

The laboratory safeguards equipment integrity using a variety of mechanisms that include but are not limited to:

- Adherence to manufacturer's specification for instrument use so that settings do not exceed manufacturer's recommendation or stress the performance of the equipment.
- Established maintenance programs.
- Transparent maintenance records and unrestricted access to maintenance logs.
- Validation and approval of software before use.
- Audits to confirm instrument settings are consistent with SOPs.
- On-the-job training for safe and proper use of laboratory equipment.

**5.6 Measurement Traceability****5.6.1 General**

Measurement traceability refers to a property of a measurement result whereby the result can be related to a reference through an unbroken chain of calibration, each contributing to the measurement uncertainty. Traceability requires an established calibration hierarchy of equipment (instruments) used during testing including equipment used for subsidiary measurements. The laboratory assures this equipment is calibrated prior to being put into service and that the reference standard and materials used for calibration are traceable to the international standard of units (SI) or national measurement standard.

When strict traceability to SI units cannot be made, the laboratory establishes traceability with the use of reference standards and equipment obtained from competent suppliers that provide calibration certificates and/or certificates of analysis (COA).

**5.6.2 Equipment Correction Factors**

When correction factors are used to adjust results the laboratory will assure that results in computer software are also updated. For example, if the direct instrument or reading output



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must be corrected based on preparation factor or concentration factors, laboratory management will assure the corrected result is also updated in the software.

### 5.6.3 Specific Requirements

#### 5.6.3.1 Requirements for Calibration Laboratories

The laboratory does not offer calibration services to customers.

#### 5.6.3.2 Requirements for Testing Laboratories

The laboratory has procedures in place to verify equipment is calibrated prior to being put into service (See 5.5.2) and ensures the reference standard and materials used for calibration are traceable to the international standard of units (SI) or national measurement standard. When strict traceability to SI units cannot be made, the laboratory establishes traceability with the use of reference standards and equipment obtained from competent suppliers that provide calibration certificates and/or certificates of analysis (COA).

### 5.6.4 Reference Standards and Reference Materials

#### 5.6.4.1 Reference Standards

The laboratory uses reference standards of measurement to verify adequacy of working weights and thermometers. The working weight is the weight(s) used for daily balance calibration checks and the working thermometers are used for temperature measurements on a daily basis.

Intermediate checks of the working reference measurement standards are performed to verify adequacy between calibration from an external calibration laboratory. The measurements from working weights and thermometers are compared to measurements taken by the reference standard which is traceable to SI or a national standard. The reference weights and thermometers are used solely for verification purposes unless the laboratory can prove that daily use does not adversely affect performance of the reference standard.

The laboratory performs intermediate checks of the working weights at least annually.

Working thermometers (glass and digital) are checked against the reference thermometer prior to placement in service to establish a correction factor and then rechecked annually (glass) or quarterly (digital) thereafter.

The calibration of liquid in glass reference thermometers is verified every 5 years and the calibration of digital reference thermometers is verified annually by an ISO/IEC 17025 accredited calibration laboratory or service provider that provides traceability to a national standard.

The calibration of the reference weight(s) is verified every 5 years by an ISO/IEC 17025 accredited calibration laboratory.

If criteria for the intermediate checks or recertification is not acceptable, the impact on previously reported results is evaluated using the process for evaluation of nonconforming work (See 4.9).



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See laboratory SOP ENV-SOP-CAR-0045 *Support Equipment* for more information about this process.

#### **5.6.4.2 Reference Materials**

The laboratory purchases chemical reference materials (also known as stock standards) from vendors that are accredited to ISO 17034 or Guide 34. Purchased reference materials must be received with a Certificate of Analysis (COA) where available. If a reference material cannot be purchased with a COA, it must be verified by analysis and comparison to a certified reference material and/or there must be a demonstration of capability for characterization. COA are reviewed for adequacy and retained by the laboratory for future reference.

All prepared standards, reference materials, and reagents are verified to meet the requirements of the test method through routine analyses of quality control samples.

The laboratory procedure for traceability and use of these materials is provided in laboratory SOP ENV-SOP-CAR-0049 *Standard and Reagent Management and Traceability*.

This SOP includes each of the following requirements:

- Procedures for documentation of receipt and tracking. The record of entry includes name of the material, the lot number, receipt date, and expiration date.
- Storage conditions and requirements. Reference materials must be stored separately from samples, extracts, and digestates.
- Requirements to assure that preparations of intermediate or working solutions are recorded and assigned a unique identification number for tracking. Records of preparation include the lot number of the stock standard(s) used, the type and lot number of the solvent, the formulation, date, expiration date, and the preparer's initials. The lot number of the working standards is recorded in the analytical record to provide traceability to the standard preparation record. The preparation record provides traceability to the COA, which is traceable to SI or the national measurement standard.
- A requirement that the expiration dates of prepared standards may not exceed the expiration date of the parent standard. Standards, reference materials, and reagents are not used after their expiration dates unless it is not possible to procure a new standard and the reliability of the expired material is verified and documented by the laboratory using a procedure approved by corporate quality personnel. Otherwise, the expired material is promptly removed from the work area or clearly labeled as acceptable for qualitative/troubleshooting purposes only.
- The second source materials used for verification of instrument calibration are obtained from a different manufacturer or may be a different lot from the same manufacturer.
- Procedures to check reference materials for degradation and replacement of material if degradation or evaporation is suspected.



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- Procedures for labeling. At a minimum the container must identify the material, the ID of the material and the expiration date. Original containers should also be labeled with date opened.

#### **5.6.4.3 Intermediate Checks**

Checks to confirm the calibration status of standards and materials are described in laboratory SOPs. These checks include use of second source standards and reference materials reserved only for the purpose of calibration checks.

#### **5.6.4.4 Transport and Storage**

The laboratory handles and transports reference standards and materials in a manner that protects the integrity of the materials. Reference standard and material integrity is protected by separation from incompatible materials and/or minimizing exposure to degrading environments or materials. Standards and reference materials are stored separately from samples, extracts, and digestates. All standards are stored according to the manufacturer's recommended conditions. Temperatures colder than the manufacturer's recommendation are acceptable if it does not compromise the integrity of the material (e.g. remains in liquid state and does not freeze solid). In the event a standard is made from more than a single source with different storage conditions, the standard will be stored according to the conditions specified in the analytical method.

See the applicable analytical SOPs for specific reference material storage and transport protocols.

### **5.7 Sampling**

Sampling refers to the field collection of samples and to subsamples taken by the laboratory for analysis from the field collected sample.

Subsampling procedures are included in each test method SOP and SOP ENV-SOP-CAR-0048 *Sample Homogenization and Sub-Sampling* to assure the aliquot used for testing is representative of the field collected sample.

The requirements in the following subsections apply when field sampling is performed by the laboratory.

#### **5.7.1 Sampling Plans and SOPs**

When the laboratory performs field collection of samples, sampling is carried out in accordance with a written sample plan prepared by the customer or by the laboratory and by relevant sampling SOPs. These documents are made readily accessible at the sampling location. Sampling plans and SOPs are, whenever reasonable, based on appropriate governing methods and address the factors to be controlled to ensure the validity of the analytical results.

#### **5.7.2 Customer Requested Deviations**

When the customer requires deviations, additions, or exclusions from the documented laboratory sampling plan and/or procedure, the laboratory records the client's change request in detail with the sampling record, communicates the change to sampling personnel, and includes this information in the final test report.



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### 5.7.3 Recordkeeping

The laboratory assures the sampling record includes the sampling procedure used, any deviations from the procedure, the date and time of sampling, the identification of the sampler, environmental conditions (if relevant), and the sampling location.

## 5.8 Sample Management & Handling

### 5.8.1 Procedures

The laboratory's procedures for sample management and handling are outlined in laboratory SOP ENV-SOP-CAR-0005 *Sample Management*.

The procedures in these SOPs are established to maintain the safe handling and integrity of samples from transport, storage, to disposal and during all processing steps to maintain client confidentiality, and to protect the interests of PAS and its customers.

#### 5.8.1.1 Chain of Custody

All samples received by the laboratory must be accompanied with a Chain of Custody (COC) record. The COC provides information about the samples collected and submitted for testing and documents the possession of samples from time of collection to receipt by the laboratory.

The COC record must minimally include the following information:

- Client name, address, phone number;
- Project Reference;
- Client Sample Identification (Client ID);
- Date, Time, and Location of Sampling;
- Sampler's Name or Initials;
- Matrix;
- Type of container, and total number collected for each sample;
- Preservatives;
- Analyses Requested;
- Mode of collection;
- Any special instructions; and
- The date and time and signature of each sample transfer from time of collection to receipt in the laboratory. When the COC is transported inside the cooler, independent couriers do not sign the COC, the shipping manifests and/or air bills are the records of possession during transport. The shipping manifest must be retained as part of the COC record and included in the test report when required (See Section 5.10.3).

A complete and legible COC is required. If the laboratory observes that the COC is incomplete or illegible, the client is contacted for resolution. The COC must be filled out in indelible ink. Personnel correct errors by drawing a single line through the




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initial entry so the entry is not obscured, entering the correct information, and initialing, and dating the change.

#### **5.8.1.2 Legal Chain of Custody**

Legal chain of custody is a chain of custody protocol used for evidentiary or legal purposes. The protocol is followed by the laboratory when requested by customer or where mandated by a regulatory program.

Legal chain of custody (COC) protocol establishes an intact, continuous record of the physical possession\*, storage, and disposal of “samples” which includes sample aliquots, and sample extracts/digestates/distillates.

Legal COC records account for all time periods associated with the samples and identifies all individuals who physically handled individual samples. Legal COC begins at the point established by legal authority, which is usually at the time the sample containers are provided by the laboratory for sample collect or when sample collection begins.

\*A sample is in someone’s custody if:

- It is in one’s physical possession;
- It is in one’s view after being in one’s physical possession;
- It has been in one’s physical possession and then locked or sealed so that no one can tamper with it; and/or
- It is kept in a secure area, restricted to authorized personnel only.

Refer to laboratory SOP ENV-SOP-CAR-0005 *Sample Management* for more information.

#### **5.8.2 Unique Identification**

Each sample is assigned a unique identification number by the laboratory (Lab ID) after the sample has been checked and accepted by the laboratory in accordance with the laboratory’s sample acceptance policy (See 5.8.3). The Lab ID is affixed to the sample container using a durable label.

The unique identification of samples also applies to subsamples, and prepared samples, such as extracts, digestates, etc.

The lab ID is linked to the field ID (client ID) in the laboratory’s record. Both IDs are linked to the testing activities performed on the sample and the documentation records of the test.

Also see 5.8.4.

#### **5.8.3 Sample Receipt Checks and Sample Acceptance Policy**

The laboratory checks the condition and integrity of samples on receipt and compares the labels on the sample containers to the COC record. Any problem or discrepancy is recorded. If the problem impacts the suitability of the sample for analysis or if the documentation is incomplete, the client is notified for resolution. Decisions and instructions from the client are maintained in the project record.





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### 5.8.3.1 Sample Receipt Checks

The following checks are performed:

- Verification that the COC is complete and legible.
- Verification that each sample's container label includes the client sample ID, the date and time of collection and the preservative in indelible ink.
- The container type and preservative are appropriate for each test requested.
- Adequate volume is received for each test requested.
- Visual inspection for damage or evidence of tampering.
- Visual inspection for presence of headspace in VOA vials. (VOA = volatile organic analysis).
- Thermal Preservation: Generally, for chemical testing methods for which thermal preservation is required, temperature on receipt is acceptable if the measurement is above freezing but  $<6^{\circ}\text{C}$ . The requirements for thermal preservation vary based on test method or by regulatory program. For example, for microbiology, temperature on receipt is acceptable if the measurement is  $<10^{\circ}\text{C}$ . Refer to the laboratory's SOP for sample receipt for specific requirements. For samples that are hand-delivered to the laboratory immediately after sample collection, there must be evidence that the chilling process began immediately after sample collection and prior to delivery of the samples to the laboratory or service center, such as arrival of the samples on ice.
- Chemical Preservation
- Holding Time: Sample receiving personnel are trained to recognize tests where the holding time is 48 hours or less and to expedite the log-in of these samples. Except for tests with immediate holding times (15 minutes from time of collection or less), when samples are received out of hold, the laboratory will notify the client and request instruction. If the decision is made to proceed with analysis, the final test report will include notation of this instruction.

### 5.8.3.2 Sample Acceptance Policy

The laboratory maintains a sample acceptance policy in accordance with regulatory guidelines to clearly establish the circumstances in which sample receipt is accepted or rejected.

When receipt does not meet criteria for any one of these conditions, the laboratory must document the noncompliance, contact the customer, and either reject the samples or fully document any decisions to proceed with testing. In accordance with regulatory specifications, test results associated with receipt conditions that do not meet criteria are qualified in the final test report.

All samples received must meet each of the following criteria:

- Be listed on a complete and legible COC;




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- Be received in properly labeled sample containers;
- Be received in appropriate containers that identify preservative;
- The COC must include the date and time of collection for each sample;
- The COC must include the test method requested for each sample;
- Be in appropriate sample containers with clear documentation of the preservatives used;
- Be received within holding time. Any samples received beyond the holding time will not be processed without prior customer approval;
- Have sufficient sample volume to proceed with the analytical testing. If insufficient sample volume is received, analysis will not proceed without customer approval; and
- Be received within appropriate temperature ranges unless program requirements or customer contractual obligations mandate otherwise. The cooler temperature is recorded directly on the COC.

Samples that are delivered to the laboratory immediately after collection are considered acceptable if there is evidence that the chilling process has been started. For example, by the arrival of the samples on ice. If samples arrive that are not compliant with these temperature requirements, the customer will be notified. The analysis will NOT proceed unless otherwise directed by the customer. If less than 72 hours remain in the hold time for the analysis, the analysis may be started while the customer is contacted to avoid missing the hold time. Data associated with any deviations from the above sample acceptance policy requirements will be appropriately qualified.

#### 5.8.4 Sample Control and Tracking

The samples are controlled and tracked using the Laboratory Information Management System (LIMS). The LIMS stores information about the samples and project. The process of entering information into the LIMS is called log-in and these procedures are described in laboratory SOP ENV-SOP-CAR-0005 *Sample Management*. After log-in, a label is generated and affixed to each sample container. Information on this label, such as the lab ID, links the sample container to the information in LIMS.

At a minimum, the following information is entered during log-in:

- Client Name and Contact Information;
- The laboratory ID linked to the client ID;
- Date and time of sample collection;
- Date and time of sample receipt;
- Matrix; and
- Tests Requested.



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**5.8.5 Sample Storage, Handling, and Disposal**

The laboratory procedures for sample storage, handling and disposal are detailed in laboratory SOPs ENV-SOP-CAR-0005 *Sample Management*, ENV-SOP-HUN1-0006 *Waste Handling and Management* (Charlotte laboratory), and ENV-SOP-ASHE-00014 *Waste Handling and Management* (Asheville, Eden, and Raleigh laboratories).

**5.8.5.1 Sample Storage**

The samples are stored according to method and regulatory requirements as per test method SOPs. Samples are stored away from all standards, reagents, or other potential sources of contamination and stored in a manner that prevents cross contamination. Volatile samples are stored separately from other samples. All sample fractions, extracts, leachates, and other sample preparation products are stored in the same manner as actual samples or as specified by the analytical method.

Refrigerated storage areas are maintained at  $\leq 6^{\circ}\text{C}$  (but not frozen) and freezer storage areas are maintained at  $< -10^{\circ}\text{C}$ , unless otherwise required per method or program. The temperature of each storage area is checked and documented at least once for each day of use. If the temperature falls outside the acceptable limits, then corrective actions are taken and appropriately documented.

The laboratory is operated under controlled access protocols to ensure sample and data integrity. Visitors must register at the front desk and be properly escorted while on-site. Samples are taken to the appropriate storage location immediately after sample receipt and log-in procedures are completed. All sample storage areas have limited access. Samples are removed from storage areas by designated personnel and returned to the storage areas as soon as possible after the required sample quantity has been taken.

**5.8.5.2 Sample Retention and Disposal**

The procedures used by the laboratory for sample retention and disposal are detailed in laboratory SOPs ENV-SOP-HUN1-0006 *Waste Handling and Management* (Charlotte laboratory), ENV-SOP-ASHE-0014 *Waste Handling and Management* (Asheville, Eden, and Raleigh laboratories) and ENV-SOP-CAR-0005 *Sample Management*.

In general, unused sample volume and prepared samples such as extracts, digestates, distillates and leachates (samples) are retained by the laboratory for the timeframe necessary to protect the interests of the laboratory and the customer.

Samples may be stored at ambient temperature when all analyses are complete, the hold time is expired, the report has been delivered, and/or when allowed by the customer or program. Samples requiring storage beyond the minimum sample retention time due to special requests or contractual obligations may be stored at ambient temperature unless the laboratory has a capacity and their presence does not compromise the integrity of other samples.

After this period expires, non-hazardous samples are properly disposed of as non-hazardous waste. The preferred method for disposition of hazardous samples is to return the excess sample to the customer.



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## **5.9 Assuring the Quality of Test Results**

### **5.9.1 Quality Control (QC) Procedures**

The laboratory monitors the validity and reliability of test results using quality control (QC) samples that are prepared and analyzed concurrently with field samples in the same manner as field samples. QC results are always associated to and reported with the field samples they were prepared and analyzed with from the same preparation or analytical batch. See the glossary for definition of preparation and analytical batch.

The results of QC performed during the testing process are used by the laboratory to assure the results of analysis are consistent, comparable, accurate, and/or precise within a specified limit. When the results are not within acceptance criteria or expectations for method performance, correction and corrective action(s) are taken. These actions may include retesting or reporting of data with qualification to alert the end user of the situation.

Other QC measures performed include the use of certified reference materials (see 5.6.4), participation in interlaboratory proficiency testing (see 5.9.1.2), verification that formulae used for reduction of data and calculation of results is accurate (see 5.9.3), on-going monitoring of environmental conditions that could impact test results (see 5.3.2), and evaluation and verification of method selectivity and sensitivity (see 5.4.5).

QC results are also used by the laboratory to monitor performance statistical trends over time and to establish acceptance criteria when no method or regulatory criteria exist. (See 5.9.1.1.9)).

#### **5.9.1.1 Essential QC**

Although the general principles of QC for the testing process apply to all testing, the QC protocol used for each test depends on the type of test performed.

QC protocol used by the laboratory to monitor the validity of the test are specified in test method SOPs. The SOP includes QC type, frequency, acceptance criteria, corrective actions, and procedures for reporting of nonconforming work.

These requirements in the SOP conform to the reference method and any applicable regulations or certification and accreditation program requirement for which results of the test are used. When a project requires more stringent QC protocol than specified in the SOP, project specification is followed. When the project requires less stringent QC protocol, the project specification may be followed as an authorized departure from the SOP when the project specifications meet the requirements in the mandated method and any regulatory compliance requirements for which the data will be used.

The following are examples of essential QC for Chemistry:

##### **5.9.1.1.1 Second Source Standard (ICV/QCS)**

The second source standard is a standard obtained from a different vendor than the vendor of the standards used for calibration or it may be from a different lot from the same vendor when there are limited vendors that offer the material. It is a positive control used to verify the accuracy of a new calibration relative to the purity of the standards used for calibration. This check is referred to in test



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method and quality system standards as the initial calibration verification (ICV) or quality control sample (QCS). The second source standard is analyzed immediately after the calibration and before analysis of any samples. When the ICV is not within acceptance criteria, a problem with the purity or preparation of the standards may be indicated.

**5.9.1.1.2 Continuing Calibration Verification (CCV)**

CCV results are used to determine if the analytical response has significantly changed since initial calibration. If the response of the CCV is within criteria, the calibration is considered valid. If not, there is a problem that requires further investigation. Actions taken are technology and method specific.

**5.9.1.1.3 Method Blank (MB) / Other Blanks**

A method blank is a negative control used to assess for contamination during the prep/analysis process. The MB consists of a clean matrix, similar to the associated samples that is known to be free of analytes of interest. The MB, unless otherwise specified by the test method, is processed with and carried through all preparation and analytical steps as the associated samples.

In general, contamination is suspected when the target analyte is detected in the MB above the reporting limit. Some programs may require evaluation of the MB to  $\frac{1}{2}$  the reporting limit or the detection limit. When contamination is evident, the source is investigated, and corrections are taken to reduce or eliminate it. Analytical results associated with MB that does not meet criteria are qualified in the final test report.

Other types of blanks that serve as negative controls in the process may include:

- Trip Blanks (VOA)
- Storage Blanks
- Equipment Blanks
- Field Blanks
- Calibration Blanks
- Cleanup Blanks
- Instrument Blanks

**5.9.1.1.4 Laboratory Control Sample (LCS)**

The LCS is positive control used to measure the accuracy of process in a blank matrix. The LCS is spiked by the laboratory with a known amount of analyte. The spike is a standard solution that is pre-made or prepared from a certified reference standard. Like the MB, unless otherwise specified in the test method, the LCS is processed with



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and carried through all preparation and analytical steps as the associated samples.

When the percent recovery (%R) of the LCS is within the established control limit, sufficient accuracy has been achieved. If not, the source of the problem is investigated and corrected, and the procedure may be repeated. Analytical results associated with LCS that does not meet criteria are qualified in the final test report.

**5.9.1.1.5 Matrix Spike (MS) and Matrix Spike Duplicate (MSD)**

Matrix spikes measure the effect the sample matrix has on precision and accuracy of the determinative test method. The MS and MSD are replicates of a client sample that is spiked with known amount of target analyte.

Due to the heterogeneity of matrices even of the same general matrix type, matrix spike results mostly provide information on the effect of the matrix to the client whose sample was used and on samples of the same matrix from the same sampling site. Therefore, MS should be client-specific when the impact of matrix on accuracy and precision is a project data quality objective. When there is not a client-specified MS for any sample in the batch, the laboratory randomly selects a sample from the batch; the sample selected at random is called a "batch" matrix spike.

The MS/MSD results for percent recovery and relative percent difference are checked against control limits. Because the performance of matrix spikes is matrix-dependent, the result of matrix spikes is not used to determine the acceptability of the test.

**5.9.1.1.6 Sample Duplicate (SD)**

A sample duplicate is a second replicate of sample that is prepared and analyzed in the laboratory along another replicate. The SD is used to measure precision.

The relative percent difference between replicates are evaluated against the method or laboratory derived criteria for relative percent difference (RPD), when this criterion is applicable. If RPD is not met, associated test results are reported with qualification.

**5.9.1.1.7 Surrogates**

Surrogates are compounds that mimic the chemistry of target analytes but are not expected to occur naturally in real world samples. Surrogates are added to each sample and matrix QC samples (MS, MSD, SD) at known concentration to measure the impact of the matrix on the accuracy of method performance. Surrogates are also added to the positive and negative control samples (MB, LCS) to evaluate performance in a clean matrix, and included in the calibration standards and calibration check standards.



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The percent recovery of surrogates is evaluated against method-specified limits or statistically derived in-house limits. Project-specific limits and/or program-specific limits are used when required. Results with surrogate recovery out of limits in samples are reported with qualification. Samples with surrogate failures can also be re-extracted and/or re-analyzed to confirm that the out-of-control value was caused by the matrix of the sample and not by some other systematic error.

**5.9.1.1.8 Internal Standards**

Internal Standards are compounds not expected to occur naturally in field samples. They are added to every standard and sample at a known concentration prior to analysis for the purpose of adjusting the response factor used in quantifying target analytes. The laboratory follows specific guidelines for the treatment of internal standard recoveries and further information can be found in the applicable laboratory SOP.

**5.9.1.1.9 QC Acceptance Criteria and Control Limits**

The QC acceptance criteria are specified in test method SOPs. The criteria in the SOP are based on the requirements in the published test method or regulatory program. When there are no established acceptance criteria, the laboratory develops acceptance criteria in accordance with recognized industry standards.

Some methods and programs require the laboratory to establish control limits for LCS, MS/MSD, and surrogate evaluation using historical data. Laboratory developed limits are referred to as "in-house" control limits. In-house control limits represent  $\pm 3$  Standard Deviations (99% confidence level) from the average recovery of at least 20 data points generated using the same preparation and analytical procedure in a similar matrix.

See laboratory SOP ENV-SOP-CAR-0053 *Control Chart Generation and Trend Analysis* for more information about the procedures used to establish in-house control limits.

**5.9.1.2 Proficiency Testing (PT)**

The laboratory participates in interlaboratory proficiency testing (PT) studies to measure performance of the test method and to identify or solve analytical problems. PT samples measure laboratory performance through the analysis of unknown samples provided by an external source.

The PT samples are obtained from accredited proficiency testing providers (PTP) and handled as field samples which means they are included in the laboratory's normal analytical processes and do not receive extraordinary attention due to their nature.

The laboratory does not share PT samples with other laboratories, does not communicate with other laboratories regarding current PT sample results during the




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duration of the study, and does not attempt to obtain the assigned value of any PT sample from the PT provider.

The laboratory investigates and implements corrective action whenever PT results are scored unacceptable by the PT provider.

The frequency of PT participation is based on the certification and accreditation requirements held by the laboratory.

### 5.9.2 QC Corrective Action

When the results of QC are not within acceptance criteria or expectations for method performance, correction and corrective action(s) are taken per the specifications in the test method SOP. These actions may include retesting or reporting of data with qualification to alert the end user of the situation.

### 5.9.3 Data Review

The laboratory uses a tiered system for data review. The tiered process provides sequential checks to verify data transfer is complete; manual calculations, if performed, are correct, manual integrations are appropriate and documented, calibration and QC requirements are met, appropriate corrective action was taken when required, test results are properly qualified, process and test method SOPs were followed, project specific requirements were met, when applicable, and the test report is complete.

The sequential process includes three tiers referred to as primary review, secondary review, and administrative/completeness review.

Detailed procedures for the data review process are described in laboratory SOP ENV-SOP-CAR-0058 *Data Review Process*. The general expectations for the tiered review process are described in the following sections:

#### 5.9.3.1 Primary Review

Primary review is performed by the individual that performed the task. All laboratory personnel are responsible for review of their work product to assure it is complete, accurate, documented, and consistent with policy and SOPs.

Checks performed during primary review include but are not limited to:

- Verification that data transfer and acquisition is complete
- Manual calculations, if performed, are documented and accurate
- Manual integrations, if performed, are documented and comply with SOP ENV-SOP-CORQ-006 *Manual Integration*
- Calibration and QC criteria were met, and/or proper correction and corrective actions were taken, and data and test results associated with QC and criteria exceptions are properly qualified
- Work is consistent with SOPs and any other relevant instructional document such as SWI, program requirements, or project QAPP





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#### **5.9.3.2 Secondary Review**

Secondary review is performed by a qualified peer or supervisor. Secondary review is essentially a repeat of the checks performed during primary review by another person. In addition to the checks of primary review, secondary review includes chromatography review to check the accuracy of quantitative analyte identification.

#### **5.9.3.3 Completeness Review**

Completeness review is an administrative review performed prior to release of the test report to the customer. Completeness review verifies that the final test report is complete and meets project specification. This review also assures that information necessary for the client's interpretation of results are explained in the case narrative or footnoted in the test report.

#### **5.9.3.4 Data Audits**

In addition to the 3-tier data review process, test reports may be audited by local quality personnel to verify compliance with SOPs and to check for data integrity, technical accuracy, and regulatory compliance. These audits are not usually done prior to issuance of the test report to the customer. The reports chosen for the data audits are selected at random.

If any problems with the data or test results are found during the data audit, the impact of the nonconforming work is evaluated using the process described in Section 4.9.

Also see Section 4.14 for internal audits.

#### **5.9.4 Calibration Certificates**

The laboratory does not perform calibration activities for its customers and calibration certificates are not offered or issued.

#### **5.9.5 Opinions and Interpretations**

The laboratory provides objective data and information to its customers of sufficient detail for their interpretation and decision making. Objective data and information are based solely on fact and does not attempt to explain the meaning (interpret) or offer a view or judgement (opinion). Sometimes the customer may request the laboratory provide opinion or interpretation to assist them with their decisions about the data.

When opinions and interpretations are included in the test report, the laboratory will document the basis upon which the opinions and interpretations have been made and clearly identify this content as opinion or interpretation in the test report.

Examples of opinion and interpretation include but are not limited to:

- The laboratory's viewpoint on how a nonconformance impacts the quality of the data or usability of results.
- The laboratory's judgment of fulfillment of contractual requirements.
- Recommendations for how the customer should use the test results and information.
- Suggestions or guidance to the customer for improvement.




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When opinions or interpretations are verbally discussed with the customer, the content of these conversations is summarized by the laboratory and kept in the project record.

**5.9.6 Subcontractor Reports**

When analytical work has been subcontracted to an organization external to PAS, the test report from the subcontractor is included in its entirety as an amendment to the final test report.

Test results performed by multiple locations within the PAS network may be merged into a single test report. The test report issued clearly identifies the location and address of each network location that performed testing, and which tests they performed. (See 5.10.2)

**5.9.7 Electronic Transmission of Results**

When test results and/or reports are submitted to the customer through electronic transmission, the procedures established in this manual for confidentiality and protection of data apply.

**5.9.8 Format of Test Reports**

The test formats offered by the laboratory are designed to accommodate each type of analytical test method carried out by the laboratory and to minimize the possibility of misunderstanding or misuse of analytical results. The format of electronic data deliverables (EDD) follow the specifications for the EDD.

**5.9.9 Amendments to Test Reports**

Test reports that are revised or amended by the laboratory after date of release of the original final test report to the customer are issued as a new test report that is clearly identified as an amendment or revision and that includes a reference to the originally issued final test report.

The customer is the organization doing business with PAS external to PAS.

Changes made to test results and data before the final test report is issued to the customer are not amendments or revisions, these are corrections to errors found during the laboratory's data verification and review process.

The laboratory's procedure for report amendments and revision are outlined in laboratory SOP ENV-SOP-CAR-0061 *Final Report and Data Deliverable Contents*.

**5.10 Reporting**

**5.10.1 General Requirements**

The laboratory reports results of testing in a way that assures the results are clear, and unambiguous. All data and results are reviewed prior to reporting to assure the results reported are accurate and complete.

Test results are summarized in test reports that include all information necessary for the customer's interpretation of the test results. Additional information necessary to clarify the data or disclose nonconformance, exceptions, or deviations that occurred during the analytical process are also reported to the customer in the test report.

The specifications for test reports and EDD are established between the laboratory and the customer at the time the request for analytical services is initiated. The report specifications




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include the test report format, protocol for the reporting limit (RL), conventions for the reporting of results less than the limit of quantitation (LOQ), and specification for the use of project or program specific data qualifiers. Information about review of analytical service requests is provided in Section 4.4.

#### 5.10.2 Test Reports: Required Items

Test Reports are prepared by the laboratory at the end of the testing process. The format of the report depends on the level of reporting requested by the customer. The laboratory offers a variety of standardized test report formats and can provide custom test report formats, when necessary.

The level of detail required in the test report depends on the customer's needs for data verification, validation, and usability assessments that occur after the laboratory releases the test report to the customer. The test report formats offered by the laboratory provide gradient levels of detail to meet the unique needs of each customer. The laboratory project manager helps the customer select the test report format that best meets their needs. When a specific report format or protocol is required for a regulatory or program compliance, the laboratory project manager must ensure the test report selected meets those requirements.

Every test report issued by the laboratory includes each of the following items:

- a) Title
- b) Name and phone number of a point of contact from the laboratory issuing the report.
- c) Name and address of the laboratory where testing was performed. When testing is done at multiple locations within network (IRWO), the report must clearly identify which network laboratory performed each test and must include the physical address of each laboratory.
- d) Unique identification of the test report and an identifier on each page of the report to link each page to the test report and clear identification of the end of the report.
- e) The name and address of the customer
- f) Identification of test methods used
- g) Cross reference between client sample identification number (Sample ID) and the laboratory's identification number for the sample (Lab ID) to provide unambiguous identification of samples.
- h) The date of receipt of samples, condition of samples on receipt, and identification of any instance where receipt of the samples did not meet sample acceptance criteria.
- i) Date and times of sample collection, receipt, preparation, and analysis.
- j) Test results and units of measurement, and qualification of results associated with QC criteria exceptions, and identification of reported results outside of the calibration range.
- k) All chains of custody (COC) including records of internal transfer between locations within the PAS network.
- l) Name, title, signature of the person(s) authorizing release of the test report and date of release.
- m) A statement that the results in the test report relate only to the items tested.



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- n) Statement that the test report may not be reproduced except in full without written approval from the laboratory.

### 5.10.3 Test Reports: Supplemental Items

#### 5.10.3.1 Supplemental Requirements

The following items are included in the test report when required or relevant:

- a) Shipping manifests / bill of lading as applicable when common couriers are utilized for shipment of samples,
- b) Explanation of departure from test method SOPs including, what the departure was and why it was necessary.
- c) Statistical methods used. (Required for Whole Effluent Toxicity)
- d) For solid samples, specification that results are reported on a dry weight or wet weight basis.
- e) Signed Affidavit, when required by client or regulatory agency.
- f) A statement of compliance / non-compliance with requirements or specifications (client, program, or standard) that includes identification of test results that did not meet acceptance criteria.
- g) When requested by the client, statement of estimated measurement uncertainty. In general, for environmental testing, estimated uncertainty of measurement is extrapolated from LCS control limits. Control limits incorporate the expected variation of the data derived from the laboratory's procedure. When the control limits are specified by the test method or regulatory program, the control limits represent the expected variation of the test method and/or matrices for which the test method was designed.
- h) Opinions and Interpretations
- i) If a claim of accreditation/certification is included in the test report, identification of any test methods or analytes for which accreditation/certification is not held by the laboratory if the accrediting body offers accreditation/certification for the test method/analyte. The fields of accreditation/certification vary between agencies and it cannot be presumed that because accreditation/certification is not held that it is offered or required.
- j) Certification Information, including certificate number and issuing body.

#### 5.10.3.2 Test Reports: Sampling Information

The following items are included in the test report when samples are collected by the laboratory or when this information is necessary for the interpretation of test results:

- a) Date of Sampling.
- b) Unambiguous identification of material samples.
- c) Location of sampling including diagrams, sketches, or photographs.
- d) Reference to the sampling plan and procedures used.



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- e) Details of environmental conditions at time of sample that may impact test results.
- f) Any standard or other specification for the sampling method or procedure, and deviations, additions to or exclusions from the specification concerned.

## 6.0 REVISION HISTORY

This Version: ENV-MAN-CAR-0001-Rev.03

Section	Description of Change
Manual Approval Signatory Page	Added "Quality" before Manual. Updated the list of required signatories and changed job titles to match current job descriptions.
All	Replaced "PAS" with "ENV" to denote that ENV is division of PAS. References to PAS were left in some sections when the policy or procedure applies to all business units in addition to environmental sciences.
All	Corrected spelling, typographical, and format errors.
All	Changed "laboratory" to "location" when requirement applies to non-testing locations, such as service centers.
All	References to "Local QA" was replaced with "Local QM"
1.2.1	Changed frequency of review from every 2 years to annually.
1.2.2	Clarified local management refers to the signatories of the manual.
2.0	Replaced reference "current version" for ISO Standard with 2 <sup>nd</sup> and 3 <sup>rd</sup> Editions and publication dates.
4.1.3	Removed table and inserted reference to Title Page, where locations covered by the manual are listed.
4.1.4.1	Updated content to match current organization structure and job titles maintained by corporate HR.
4.5.1.1	Updated content to match current organization structure and job titles maintained by corporate HR.
4.5.1.2	Added new positions, updated job titles to current HR job titles, removed obsolete job titles.
4.5.2.1	Added timeframe for AB notification for absence of acting TNI Technical Manager.
4.2.2.1	Replaced term "tertiary" with completeness and replaced reference to MintMiner with data surveillance.
4.2.5.1	Updated definition of Guide; Added Guidance
4.5	Changed reference to procurement program to vendor qualification program.
4.6	Added reference to corporate SOP for vendor qualification.
4.7.1	Removed reference to SME, the SME program was not formalized as planned.
4.7.2	Removed reference to monthly; the frequency of management reports is established by the executive leadership team based on need.
4.11	Replaced reference to local SOP with corporate SOP. The corporate SOP replaced all local SOPs for the process. Updated 7 Stage process to match SOP.
4.11.1	Changed reference to root cause analysis to cause analysis.
4.12	Removed 7 step process for preventive action. PA is rolled into the 7 stage process for CAPA.
4.12.1	Removed reference to preventive action SOP – this was a typo for this section.
4.13.1	Added reference to the corporate policy for records.
4.13.1.2	Updated record retention time frame to match policy.



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4.13.1.5	Added this section to incorporate electronic signature policy.
4.14.1	Rewrote paragraph that describes audit program.
4.15	Replaced reference to local SOP with corporate SOP. The corporate SOP replaced all local SOPs for the process.
4.16	Rewrote paragraph for clarity and updated SOP references.
5.2.2	Updated section to match current requirements.
5.2.2.1	Changed "monitor" to "tracks" to clarify expectation.
5.2.2.3	Added this section.
5.2.2.1.3	Changed "attendance sheet" to signature record.
5.4.5.2	Replaced local SOP reference with referral to corporate policy.
5.4.5.3.4	Fixed typographical error related to RL as qualitative/quantitative value. Moved SOP reference from section 5.4.5.3.3 to this section.
5.5.2.2	Updated policy reference.
5.5.9	Replaced typographical error reference to Appendix E with reference to local SOP.
5.6.4.2	Clarified requirements for expired reference materials.
5.8.1.1	Added requirement for locations to retain shipping manifest as COC record.
5.8.3.1	Updated requirements for thermal preservation.
5.9.1.1.1	Updated section to specify the second source standard may also be a different lot from the same manufacturer.
5.9.1.1.3	Added unless otherwise specified by test method exception.
5.9.1.1.4	Added unless otherwise specified by test method exception.
5.9.1.1.9	Clarified that in-house limits are calculated using historical data.
5.10.2	Added requirement that all test reports must include copies of the COCs, including COC for in-network transfer. (CAR to State Audit Deficiency)
Glossary	Added Definition of MRL (CAR to State Audit Deficiency)
Glossary	Changed definition of MintMiner
Appendix 8.1	Added DoD/DOE requirements for LOD/LOQ
Appendix B	Added footnote specification for test methods that are not TNI accredited; applies to TNI accredited labs only.

This document supersedes the following documents:

Document Number	Title	Version
ENV-MAN-CORQ-0001	Quality Manual	00
ENV-MAN-CORQ-0001	Quality Manual	01
ENV-MAN-CORQ-0001	Quality Manual	02



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## 7.0 APPENDICES

### 7.1 Appendix A: Certification / Accreditation Listing

The certifications / accreditation lists provided in this manual represent those that were held by the named location on the effective date of this manual. This information is subject to change without notice and must not be considered valid proof of certification or accreditation status. Current certificates are maintained by the local QM and a copy of the certificate is posted to ENV eDMS Portal for access by all ENV employees. External parties should contact the laboratory for the most current information.

#### 7.1.1 PAS-Asheville

Authority	ID	Authority	ID
Florida NELAP	E87648	NC DEQ WW	40
NC DHHS DW	37712	SC DHEC	99030001
VELAP	10657	USDA	NC-CLT-12-01

#### 7.1.2 PAS-Huntersville (Charlotte)

Authority	ID	Authority	ID
VELAP	11155	Florida NELAP	E87627
NC DEQ WW	12	SCDHEC WW	99006001
NC DEQ – Field Services	5342	SCDHEC DW	99006003
NC DHHS DW	37706	Louisiana	LA029

#### 7.1.3 PAS-Eden

Authority	ID	Authority	ID
NC DHHS DW	37738	VA VELAP DW	10379
NC DEQ WW	633		

#### 7.1.4 PAS-Raleigh

Authority	ID	Authority	ID
NC DHHS DW	37731	NC DEQ WW	67
NC DEQ – Field Services	5342		

#### 7.1.5 PAS-Greenwood

Authority	ID	Authority	ID
SC DHEC	24562001		

#### 7.1.6 PAS-Atlanta

Authority	Certificate Number	Authority	Certificate Number
Florida DOIH	E87315	USDA	20-GA-S-009
Georgia DNR / Environmental Protection Division	812	South Carolina DOH and DEQ	98011001
North Carolina DEQ	381		



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**7.1.7 PAS-Greenville**

Authority	Certificate Number	Authority	Certificate Number
Florida DOH	E87585		
South Carolina DOH and DEQ	23031001		

**7.2 Appendix B: Capability Listing**

The capabilities listed in this Appendix were held by the location referenced on the effective date of this manual. This information is subject to change without notice. External parties should contact the laboratory for the most current information.

Table Legend:

- Air = Air
- DW = Drinking Water
- NPW = Non-Potable Water
- SCM = Solid and Chemical Materials
- Waste = Non-Aqueous Phase Liquid (NAPL), Oil
- Tissue = Biota and Tissue

**7.2.1 PAS-Asheville**

Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Alkalinity as CaCO <sub>3</sub>	SM 2320 B-2011	x	x		
Amenable Cyanide	EPA 9012 B		x		
Amenable Cyanide	SM 4500-CN- G-2011		x		
Ammonia as N	EPA 350.1 Rev. 2.0 1993		x		
BOD	SM 5210 B-2011		x		
Bromide	EPA 300.0 – 1993 Rev. 2.1		x		
Bromide	EPA 9056 A		x		
CBOD	SM 5210 B-2011		x		
Chloride	SM 4500-CL- E-2011	x <sup>i</sup>	x		
Chloride	EPA 300.0 Rev. 2.1	x <sup>i</sup>	x		
Chloride	EPA 9056 A		x		
Chlorine, Residual	SM 4500 Cl G-2011		x <sup>i</sup>		
COD	SM 5220 D-2011		x		
Total Coliforms	SM 9223 Colisure	x			
Conductivity	EPA 120.1		x		
Conductivity	SM 2510 B	x <sup>i</sup>			





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Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Conductivity	SW-846 9050 A		x <sup>i</sup>		
Copper	EPA 200.8 Rev 5.4	x			
Cyanide	SM 4500-CN E-2011	x <sup>i</sup>	x		
Cyanide	EPA 9010 C		x		
Cyanide, Total	EPA 9012 B		x	x <sup>i</sup>	
Cyanide	LACHAT 10-204-00-1-X		x		
Dissolved Oxygen	SM 4500-O G-2011		x <sup>i</sup>		
Escherichia coli	SM 9223 Colisure	x			
Fecal Coliform	SM 9222 D (MF) – 1997		x <sup>i</sup>		
Fecal Coliform	Colilert®-18		x <sup>i</sup>		
Flash Point	SW-846 1010 A		x		
Fluoride	EPA 300.0 Rev. 2.1	x <sup>i</sup>	x		
Fluoride	EPA 9056 A		x		
Free Liquids/Paint Filter Liquids	EPA 9095 B		x	x	
Hexavalent Chromium (Cr 6+)	SM 3500-CR B-2011		x		
Hexavalent Chromium (Cr 6+)	EPA 7196 A		x	x <sup>i</sup>	
Hexavalent Chromium (Cr 6+), LL	EPA 218.6 Rev. 3.3 TNI		x		
Hexavalent Chromium (Cr 6+), LL	EPA 218.7 Rev. 1.0 2011		x <sup>i</sup>		
Kjeldahl Nitrogen – Total (TKN)	EPA 351.2 Rev. 2.0, 1993 (as LACHAT 10-107-06-2-D)		x		
Mercury	EPA 7470 A		x		
Mercury	EPA 7471 B			x	
Mercury	EPA 245.1 Rev. 3.0	x <sup>i</sup>	x		
Mercury	EPA 1631 E		x		
Metals	EPA 200.7 Rev. 4.4	x <sup>i</sup>	x		
Metals	EPA 6010 D		x	x	
Metals	EPA 6020 B		x		
Metals	EPA 200.8 Rev. 5.4		x		
Metals	EPA 3005 A		x		
Metals, Total	EPA 3010 A		x		
Metals Digestion	EPA 3050 B-1996			x	
Nitrate as N	EPA 353.2 Rev. 2.0	x			
Nitrate as N	EPA 353.2 Rev. 2.0 (as LACHAT 10-107-04-1-A)	x	x		



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Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Nitrate as N	EPA 300.0 Rev. 2.1	x <sup>i</sup>	x		
Nitrate as N	EPA 9056 A		x		
Nitrate/Nitrite as N	EPA 353.2 Rev. 2.0 (as LACHAT 10-107-04-1-A)		x		
Nitrate/Nitrite as N	EPA 300.0 Rev. 2.1		x		
Nitrate/Nitrite as N	EPA 9056 A		x		
Nitrite as N	EPA 353.2 Rev. 2.0	x			
Nitrite as N	EPA 353.2 Rev. 2.0 (as LACHAT 10-107-04-1-A+C)	x	x		
Nitrite as N	EPA 300.0 Rev. 2.1	x <sup>i</sup>	x		
Nitrite as N	SW-846 9056 A		x		
Organic Nitrogen	EPA 351.2 MINUS EPA 350.1		x		
Orthophosphate as P	EPA 365.1 Rev. 2.0		x <sup>i</sup>		
Orthophosphate as P	SM 4500-P E-2011	x <sup>i</sup>	x		
Orthophosphate as P	EPA 300.0 Rev. 2.1	x <sup>i</sup>	x <sup>i</sup>		
Orthophosphate as P	SW-846 9056 A		x <sup>i</sup>		
pH	EPA 9040 C		x		
pH	SM 4500-H B-2011		x <sup>i</sup>		
pH	EPA 9045 D			x	
Phenol	EPA 420.4 (as LACHAT 10-210-00-1-X)		x		
Phenol	EPA 9065			x	
Phosphorus, Total	EPA 365.1 Rev. 2.0 (as LACHAT 10-115-01-1-E)		x		
Residue-Settleable	SM 2540 F-2011		x		
Residue-Filterable (TDS)	SM 2540 C-2011		x		
Residue-Total (TS)	SM 2540 B-2011		x		
Residue-Nonfilterable (TSS)	SM 2540 D-2011		x		
Residue-Volatile	EPA 160.4 (9/86)		x		
SPLP	EPA 1312			x	
Sulfate	EPA 300.0 Rev. 2.1	x <sup>i</sup>	x		
Sulfate	EPA 9056 A		x		
Sulfide	SM 4500 S2 D-2011		x		
TCLP	EPA 1311			x	
Total Hardness as CaCO <sub>3</sub>	SM 2340 B-2011		x		
TOC	SM 5310 B-2011		x		



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Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
TOC	EPA 9060 A		x	x	
Turbidity	SM 2130 B	x <sup>i</sup>	x		

<sup>i</sup> = Laboratory does not hold TNI Accreditation for this test method.

### 7.2.2 PAS-Huntersville (Charlotte)

Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
TCLP	EPA 1311 (1992)			x	
SPLP	EPA 1312 (1994)			x	
Oil and Grease	EPA 1664 B (2010)		x		
Total Petroleum Hydrocarbons	EPA 1664 B (2010)		x		
Liquid-Liquid Extraction	EPA 3510 C (1996)		x	x	
Reduced Volume Extraction	EPA 3510 C-RVE (1996)		x	x	
Organic Extraction and Sample Preparation	EPA 3511 (2014)		x		
Microwave Extraction	EPA 3546 (2007)			x	
Ultrasonic Extraction	EPA 3550 B			x	
Waste Dilution	EPA 3580 A (1992)			x	x
Purge and Trap	EPA 5030 B (1996)		x	x	
Closed System Purge and Trap	EPA 5035 (1996)			x	
EDB, DBCP, and TCP	EPA 504.1 Rev 1.1 (1995)	x	x <sup>1</sup>		
Trihalomethanes	EPA 524.2 Rev 4.1 (1995)	x			
Regulated Volatiles	EPA 524.2 Rev 4.1 (1995)	x			
Haloacetic Acids	EPA 552.2 Rev 1 (1995)	x			
Organochlorine Pesticides and PCBs	EPA 608.3 (2016)		x		
Purgeables	EPA 624.1 (2016)		x		
Base/Neutrals and Acids	EPA 625.1 (2016)		x		
EDB and DBCP	EPA 8011 (1992)		x		
Diesel Range Organics	EPA 8015 C (2007)		x	x	
Gasoline Range Organics	EPA 8015 C (2007)		x	x	
Oil Range Organics	EPA 8015 C (2007)		x	x	
Organochlorine Pesticides	EPA 8081 B (2007)		x	x	
Polychlorinated Biphenyls	EPA 8082 A (2007)		x	x	x
Volatile Organic Compounds	EPA 8260 D (2018)		x	x	



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Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Volatile Organic Compounds	EPA 8260 D-OXY (2018)		x		
Volatile Organic Compounds	EPA 8260 D SIM (2018)		x	x	
Semivolatile Organic Compounds	EPA 8270 E (2018)		x	x	
Semivolatile Organic Compounds	EPA 8270 E SIM (2007)		x	x	
Oil and Grease	EPA 9071 B (2007)			x <sup>1</sup>	
Non-polar Hexane Extractable Material	EPA 9071 B (2007)			x <sup>1</sup>	
Extractable Petroleum Hydrocarbons	MADEP-EPH		x <sup>1</sup>	x <sup>1</sup>	
Volatile Petroleum Hydrocarbons	MADEP-VPH		x <sup>1</sup>	x <sup>1</sup>	
Determination of Dissolved Gases	RSK-175		x		
Volatile Organic Compounds	SM 6200 B 20th ED (1998)		x <sup>1</sup>		
Heterotrophic Plate Count (HPC)	SIMPLATE	x <sup>1</sup>			
Total Coliform	SM 9222 D-2006 (MF)		x <sup>1</sup>		
Total Coliform	SM 9223 B (Colilert)	x <sup>1</sup>			
Escherichia coli	SM 9223 B (Colilert)	x <sup>1</sup>			
Conductivity	EPA 120.1 (1982)		x <sup>1</sup>		
Conductivity	SM 2510 B-2011		x <sup>1</sup>		
Temperature	SM 2550 B-2010		x <sup>1</sup>		
Total Residual Chlorine	SM 4500 Cl G-2011		x <sup>1</sup>		
pH	SM 4500-H B-2011		x <sup>1</sup>		
Dissolved Oxygen	SM 4500-O G-2011		x <sup>1</sup>		
Turbidity	SM 2130 B-2011		x <sup>1</sup>		

<sup>1</sup> = Laboratory does not hold TNI Accreditation for this test method.

### 7.2.3 PAS-Eden

Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Total Coliforms / MPN	SM 9223 Colilert MPN	x			
Total Coliforms	SM 9223 Colisure / COLILERT 18	x			
Alkalinity as CaCO <sub>3</sub>	SM 2320 B-2011	x			
Color	SM 2120 B-2011	x	x		
UV254	SM 5910 B-2011	x			
Escherichia Coliform	SM 9223 Colisure	x			
Escherichia Coliform	9223 B-MW	x			



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Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Escherichia Coliform / MPN	Colilert MPN		x		
Escherichia Coliform / MPN	SM 9223 B-2004 MPN	x			
Enterococci	Enterolert		x		
Ammonia as N	EPA 350.1 Rev. 2		x		
BOD	SM 5210 B-2011		x		
CBOD	SM 5210 B-2011		x		
Chloride	SM 4500-CL- E-2011		x		
Color, ADMI	SM 2120 E – on-line		x		
Dissolved Oxygen	SM 4500O G-2001		x		
Fecal Coliform	SM 9222D (MF) – 1997		x		
Fecal Coliform	Colilert®18 MPN		x		
Free Cyanide	ASTM D4282-02		x		
Nitrate as N	HACH 10206	x	x		
Nitrite as N	SM 4500-NO2 B-2011	x	x		
pH	SM 4500 H+B-2011	x	x		
pH	EPA 9040 C		x		
Orthophosphate as P	SM 4500-P E-2011		x		
Residue-Settleable	SM 2540 F-2011		x		
Residue-Nonfilterable (TSS)	SM 2540 D-2011		x		
Residue-Filterable (TDS)	SM 2540 C-2011	x	x		
Turbidity	SM 2130 B-2011	x	x		

<sup>1</sup> = Laboratory does not hold TNI Accreditation for this test method.

**7.2.4 PAS-Raleigh**

Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Coliform	Colisure	x			
Coliform	9223 B Colilert®18	x			
Escherichia coli	Colisure	x			
Escherichia coli	9223 B Colilert®18	x			
Heterotrophic Bacteria	Idexx Simplate	x			
Fecal Coliform	SM 9222 D (MF) – 1997		x		



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### 7.2.5 PAS-Greenwood

Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Residual Chlorine	SM 4500-CL G-2011	x	x		
Dissolved Oxygen	SM 4500-0 G-2011		x		
Turbidity	SM2130 B-2011		x		
pH	SM 4500-H B-2011		x		
Specific Conductance	SM 2510B-2011		x		
Temperature	SM 2550B-2010	x	x		

### 7.2.6 PAS-Atlanta

Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Amenable Cyanide	SM 4500 CN G-2011		x		
Biochemical Oxygen Demand	SM 5210 B-2011 (cNC method include ASTM D 888-09 C.LDO)		x		
Carbonaceous BOD (CBOD)	SM 5210 B-2011 (cNC method include ASTM D 888-09 C.LDO)		x		
Chromium VI	SM 3500 Cr B-2011		x		
Color	SM 2120 B-2011	x	x		
Cyanide	SM 4500 CN E-2011		x		
Escherichia coli	SM 9223 B Colilert	x			
Escherichia coli	SM 9223 B Quantitray	x	x		
Fecal Coliforms	Colilert – 18		x		
Fecal Coliforms	SM 9222 D		x	x	
Ferrous Iron	SM 3500 Fe B		x		
Total Hardness as CaCO <sub>3</sub> (calc)	SM 2340 B-2011		x		
Total Hardness as CaCO <sub>3</sub> (calc)	EPA 200.7 Rev. 4.4		x		
Heterotrophic Plate Count	Simplate	x	x		
Mercury	EPA 245.1 Rev. 3		x		
Mercury	EPA 7470 A		x		
Mercury	EPA 7471 B			x	
Metals by ICP	EPA 200.7 Rev. 4.4		x		
Metals by ICP	EPA 6010 D		x	x	
Metals by ICP/MS	EPA 200.8 Rev. 5.4		x		
Metals by ICP/MS	EPA 6020 B		x		



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Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Nitrate	EPA 353.2	x	x		
Nitrate – Nitrite	EPA 353.2	x	x		
Nitrite	EPA 353.2	x	x		
Orthophosphate	SM 4500 P E-2011	x	x		
Oxygen, Dissolved	ASTM D888-09C		x		
pH	SM 4500 H+ B-2011	x	x		
pH	EPA 9040 C		x		
pH	EPA 9045 D			x	
Phosphorus, Total	EPA 200.7 Rev. 4.4		x		
Phosphorus, Total	EPA 6010 D		x	x	
Residual Free Chlorine	SM 4500 Cl G-2011	x	x		
Residue-Filterable (TDS)	SM 2450 C-2011		x		
Residue-Nonfilterable (TSS)	SM 2540 D-2011		x		
Residue-Settleable (SS)	SM 2540 F-2011		x		
Residue-Total (TS)	SM 2540 G-2011		x	x	
Total Coliforms	SM 9223 B Colilert	x	x		
Total Coliforms	SM 9223 B Quantitray	x	x		
Total Residual Chlorine	SM 4500 Cl G-2011	x	x		
Total, Fixed and Volatile Residue	SM 2540 G		x	x	
Residue-Volatile	SM 2540 E-2011		x		
Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311		x	x	
Turbidity	EPA 180.1 Rev. 2		x		

<sup>1</sup> = Laboratory does not hold TNI Accreditation for this test method.

**7.2.7 PAS-Greenville**

Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Alkalinity	SM 2320 B-2011		X <sup>1</sup>		
Dissolved Oxygen	SM 4500 O G-2011		X <sup>1</sup>		
Hardness, Total	SM 2340 C-2011		X <sup>1</sup>		
pH	SM 4500-H+ B-2011		X <sup>1</sup>		
Specific Conductance	SM 2510 B-2011		X <sup>1</sup>		



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Parameter	Method	Matrices			
		DW	NPW	SCM	Waste
Residual Chlorine	SM 4500 Cl F-2011		X <sup>1</sup>		
Temperature	SM 2550 B-2010		X <sup>1</sup>		
Acute Toxicity, Ceriodaphnia Dubia	EPA 2002.0		x		
Chronic Toxicity, Ceriodaphnia Dubia	EPA 1002.0		x		
Acute Toxicity, Pimephales promelas	EPA 2000.0		x		
Chronic Toxicity, Pimephales promelas	EPA 1000.0		x		

<sup>1</sup> = Laboratory does not hold TNI Accreditation for this test method.

### 7.3 Appendix C: Glossary

This glossary provides common terms and definitions used in the laboratory. **It is not intended to be a complete list of all terms and definitions used.** The definitions have been compiled mostly from the TNI Standard and DoD QSM. Although this information has been reproduced with care, errors cannot be entirely excluded. Definitions for the same term also vary between sources. When the meaning of a term used in a laboratory document is different from this glossary or when the glossary does not include the term, the term and definition is included or defined in context in the laboratory document.

Term	Definition
3P Program	PAS-The continuous improvement program used by PAS that focuses on Process, Productivity, and Performance.
Acceptance Criteria	TNI- Specified limits placed on characteristics of an item, process, or service defined in requirement documents.
Accreditation	TNI- The process by which an agency or organization evaluates and recognizes a laboratory as meeting certain predetermined qualifications or standards, thereby accrediting the laboratory. DoD- Refers to accreditation in accordance with the DoD ELAP.
Accreditation Body (AB)	TNI- The organization having responsibility and accountability for environmental laboratory accreditation and which grants accreditation under this program. DoD- Entities recognized in accordance with the DoD-ELAP that are required to operate in accordance with ISO/IEC 17011, <i>Conformity assessment: General requirements for accreditation bodies accrediting conformity assessment bodies</i> . The AB must be a signatory, in good standing, to the International Laboratory Accreditation Cooperation (ILAC) mutual recognition arrangement (MRA) that verifies, by evaluation and peer assessment, that its signatory members are in full compliance with ISO/IEC 17011 and that its accredited laboratories comply with ISO/IEC 17025.
Accuracy	TNI- The degree of agreement between an observed value and an accepted reference value. Accuracy includes a combination of random error (precision) and systematic error (bias) components that are due to sampling and analytical operations; a data quality indicator.
Activity, Absolute	TNI- Rate of nuclear decay occurring in a body of material, equal to the number of nuclear disintegrations per unit time. NOTE: Activity (absolute) may be expressed in becquerels (Bq), curies (Ci), or disintegrations per minute (dpm), and multiples or submultiples of these units.
Activity, Areic	TNI- Quotient of the activity of a body of material and its associated area.
Activity, Massic	TNI- Quotient of the activity of a body of material and its mass; also called specific activity.
Activity, Volumic	TNI- Quotient of the activity of a body of material and its volume; also called activity concentration. NOTE: In this module [TNI Volume 1, Module 6], unless otherwise stated, references to activity shall include absolute activity, areic activity, massic activity, and volumic activity.
Activity Reference Date	TNI- The date (and time, as appropriate to the half-life of the radionuclide) to which a reported activity result is calculated. NOTE: The sample collection date is most frequently used as the Activity Reference Date for environmental measurements, but different programs may specify other points in time for correction of results for decay and ingrowth.





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Aliquot	DoD- A discrete, measured, representative portion of a sample taken for analysis.
American Society for Testing and Materials (ASTM)	An international standards organization that develops and publishes voluntary consensus standards for a wide range of materials, products, systems and services.
Analysis	DoD- A combination of sample preparation and instrument determination.
Analysis Code (Acode)	All the set parameters of a test, such as Analytes, Method, Detection Limits and Price.
Analysis Sequence	A compilation of all samples, standards and quality control samples run during a specific amount of time on a particular instrument in the order they are analyzed.
Analyst	TNI- The designated individual who performs the “hands-on” analytical methods and associated techniques and who is the one responsible for applying required laboratory practices and other pertinent quality controls to meet the required level of quality.
Analyte	TNI- A substance, organism, physical parameter, property, or chemical constituent(s) for which an environmental sample is being analyzed. DoD- The specific chemicals or components for which a sample is analyzed; it may be a group of chemicals that belong to the same chemical family and are analyzed together.
Analytical Method	DoD- A formal process that identifies and quantifies the chemical components of interest (target analytes) in a sample.
Analytical Uncertainty	TNI- A subset of Measurement Uncertainty that includes all laboratory activities performed as part of the analysis.
Aliquot	DoD- A discrete, measured, representative portion of a sample taken for analysis.
Annual (or Annually)	Defined by PAS as every 12 months $\pm$ 30 days.
Assessment	TNI - The evaluation process used to measure or establish the performance, effectiveness, and conformance of an organization and/or its system to defined criteria (to the standards and requirements of laboratory accreditation). DoD- An all-inclusive term used to denote any of the following: audit, performance evaluation, peer review, inspection, or surveillance conducted on-site.
Atomic Absorption Spectrometer	Instrument used to measure concentration in metals samples.
Atomization	A process in which a sample is converted to free atoms.
Audit	TNI- A systematic and independent examination of facilities, equipment, personnel, training, procedures, record-keeping, data validation, data management, and reporting aspects of a system to determine whether QA/QC and technical activities are being conducted as planned and whether these activities will effectively achieve quality objectives.
Batch	TNI- Environmental samples that are prepared and/or analyzed together with the same process and personnel, using the same lot(s) of reagents. A <b>preparation batch</b> is composed of one to 20 environmental samples of the same quality systems matrix, meeting the above-mentioned criteria and with a maximum time between the start of processing of the first and last sample in the batch to be 24 hours or the time-frame specified by the regulatory program. An <b>analytical batch</b> is composed of prepared environmental samples (extracts, digestates or concentrates) which are analyzed together as a group. An analytical batch can include prepared samples originating from various quality system matrices and can exceed 20 samples.
Batch, Radiation Measurements (RMB)	TNI- An RMB is composed of 1 to 20 environmental samples that are counted directly without preliminary physical or chemical processing that affects the outcome of the test (e.g., non-destructive gamma spectrometry, alpha/beta counting of air filters, or swipes on gas proportional detectors). The samples in an RMB share similar physical and chemical parameter, and analytical configurations (e.g., analytes, geometry, calibration, and background corrections). The maximum time between the start of processing of the first and last in an RMB is 14 calendar days.
Bias	TNI- The systematic or persistent distortion of a measurement process, which causes errors in one direction (i.e., the expected sample measurement is different from the sample’s true value).
Blank	TNI and DoD- A sample that has not been exposed to the analyzed sample stream in order to monitor contamination during sampling, transport, storage or analysis. The blank is subjected to the usual analytical and measurement process to establish a zero baseline or background value and is sometimes used to adjust or correct routine analytical results (See Method Blank). DoD- Blank samples are negative control samples, which typically include field blank samples (e.g., trip blank, equipment (rinsate) blank, and temperature blank) and laboratory blank samples (e.g., method blank, reagent blank, instrument blank, calibration blank, and storage blank).



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Blind Sample	A sub-sample for analysis with a composition known to the submitter. The analyst/laboratory may know the identity of the sample but not its composition. It is used to test the analyst's or laboratory's proficiency in the execution of the measurement process.
BNA (Base Neutral Acid compounds)	A list of semi-volatile compounds typically analyzed by mass spectrometry methods. Named for the way they can be extracted out of environmental samples in an acidic, basic or neutral environment.
BOD (Biochemical Oxygen Demand)	Chemical procedure for determining how fast biological organisms use up oxygen in a body of water.
Calibration	TNI- A set of operations that establish, under specified conditions, the relationship between values of quantities indicated by a measuring instrument or measuring system, or values represented by a material measure or a reference material, and the corresponding values realized by standards. 1) In calibration of support equipment, the values realized by standards are established through the use of reference standards that are traceable to the International System of Units (SI); 2) In calibration according to test methods, the values realized by standards are typically established through the use of Reference Materials that are either purchased by the laboratory with a certificate of analysis or purity, or prepared by the laboratory using support equipment that has been calibrated or verified to meet specifications.
Calibration Curve	TNI- The mathematical relationship between the known values, such as concentrations, of a series of calibration standards and their instrument response.
Calibration Method	A defined technical procedure for performing a calibration.
Calibration Range	DoD- The range of values (concentrations) between the lowest and highest calibration standards of a multi-level calibration curve. For metals analysis with a single-point calibration, the low-level calibration check standard and the high standard establish the linear calibration range, which lies within the linear dynamic range.
Calibration Standard	TNI- A substance or reference material used for calibration.
Certified Reference Material (CRM)	TNI- Reference material accompanied by a certificate, having a value, measurement uncertainty, and stated metrological traceability chain to a national metrology institute.
Chain of Custody	An unbroken trail of accountability that verifies the physical security of samples, data, and records.
Chain of Custody Form (COC)	TNI- Record that documents the possession of the samples from the time of collection to receipt in the laboratory. This record generally includes: the number and type of containers; the mode of collection, the collector, time of collection; preservation; and requested analyses.
Chemical Oxygen Demand (COD)	A test commonly used to indirectly measure the amount of organic compounds in water.
Client (referred to by ISO as Customer)	Any individual or organization for whom items or services are furnished or work performed in response to defined requirements and expectations.
Code of Federal Regulations (CFR)	A codification of the general and permanent rules published in the Federal Register by agencies of the federal government.
Comparability	An assessment of the confidence with which one data set can be compared to another. Comparable data are produced through the use of standardized procedures and techniques.
Completeness	The percent of valid data obtained from a measurement system compared to the amount of valid data expected under normal conditions. The equation for completeness is:  % Completeness = (Valid Data Points/Expected Data Points)*100
Confirmation	TNI- Verification of the identity of a component through the use of an approach with a different scientific principle from the original method. These may include, but are not limited to: second-column confirmation; alternate wavelength; derivatization; mass spectral interpretation; alternative detectors; or additional cleanup procedures. DoD- Includes verification of the identity and quantity of the analyte being measured by another means (e.g., by another determinative method, technology, or column). Additional cleanup procedures alone are not considered confirmation techniques.
Conformance	An affirmative indication or judgment that a product or service has met the requirements of the relevant specifications, contract, or regulation; also the state of meeting the requirements.
Congener	A member of a class of related chemical compounds (e.g., PCBs, PCDDs).
Consensus Standard	DoD- A standard established by a group representing a cross-section of a particular industry or trade, or a part thereof.
Continuing Calibration Blank (CCB)	A blank sample used to monitor the cleanliness of an analytical system at a frequency determined by the analytical method.
Continuing Calibration Check Compounds (CCC)	Compounds listed in mass spectrometry methods that are used to evaluate an instrument calibration from the standpoint of the integrity of the system. High variability would suggest leaks or active sites on the instrument column.



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Continuing Calibration Verification	DoD- The verification of the initial calibration. Required prior to sample analysis and at periodic intervals. Continuing calibration verification applies to both external and internal standard calibration techniques, as well as to linear and non-linear calibration models.
Continuing Calibration Verification (CCV) Standard	Also referred to as a Calibration Verification Standard (CVS) in some methods, it is a standard used to verify the initial calibration of compounds in an analytical method. CCVs are analyzed at a frequency determined by the analytical method.
Continuous Emission Monitor (CEM)	A flue gas analyzer designed for fixed use in checking for environmental pollutants.
Continuous Improvement Plan (CIP)	The delineation of tasks for a given laboratory department or committee to achieve the goals of that department.
Contract Laboratory Program (CLP)	A national network of EPA personnel, commercial labs, and support contractors whose fundamental mission is to provide data of known and documented quality.
Contract Required Detection Limit (CRDL)	Detection limit that is required for EPA Contract Laboratory Program (CLP) contracts.
Contract Required Quantitation Limit (CRQL)	Quantitation limit (reporting limit) that is required for EPA Contract Laboratory Program (CLP) contracts.
Control Chart	A graphic representation of a series of test results, together with limits within which results are expected when the system is in a state of statistical control (see definition for Control Limit)
Control Limit	A range within which specified measurement results must fall to verify that the analytical system is in control. Control limit exceedances may require corrective action or require investigation and flagging of non-conforming data.
Correction	DoD- Action taken to eliminate a detected non-conformity.
Corrective Action	DoD- The action taken to eliminate the causes of an existing non-conformity, defect, or other undesirable situation in order to prevent recurrence. A root cause analysis may not be necessary in all cases.
Corrective and Preventative Action (CAPA)	The primary management tools for bringing improvements to the quality system, to the management of the quality system's collective processes, and to the products or services delivered which are an output of established systems and processes.
Critical Value	TNI- Value to which a measurement result is compared to make a detection decision (also known as critical level or decision level). NOTE: The Critical Value is designed to give a specified low probability $\alpha$ of false detection in an analyte-free sample, which implies that a result that exceeds the Critical Value, gives high confidence ( $1 - \alpha$ ) that the radionuclide is actually present in the material analyzed. For radiometric methods, $\alpha$ is often set at 0.05.
Customer	DoD- Any individual or organization for which products or services are furnished or work performed in response to defined requirements and expectations.
Data Integrity	TNI- The condition that exists when data are sound, correct, and complete, and accurately reflect activities and requirements.
Data Quality Objective (DQO)	Systematic strategic planning tool based on the scientific method that identifies and defines the type, quality, and quantity of data needed to satisfy a specified use or end user.
Data Reduction	TNI- The process of transforming the number of data items by arithmetic or statistical calculation, standard curves, and concentration factors, and collating them into a more usable form.
Definitive Data	DoD- Analytical data of known quantity and quality. The levels of data quality on precision and bias meet the requirements for the decision to be made. Data that is suitable for final decision-making.
Demonstration of Capability (DOC)	TNI- A procedure to establish the ability of the analyst to generate analytical results of acceptable accuracy and precision. DoD- A procedure to establish the ability of the analyst to generate analytical results by a specific method that meet measurement quality objectives (e.g., for precision and bias).
Department of Defense (DoD)	An executive branch department of the federal government of the United States charged with coordinating and supervising all agencies and functions of the government concerned directly with national security.
Detection Limit (DL)	DoD- The smallest analyte concentration that can be demonstrated to be different than zero or a blank concentration with 99% confidence. At the DL, the false positive rate (Type 1 error) is 1%. A DL may be used as the lowest concentration for reliably reporting a detection of a specific analyte in a specific matrix with a specific method with 99% confidence.



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Detection Limit (DL) for Safe Drinking Water Act (SDWA) Compliance	TNI- Laboratories that analyze drinking-water samples for SDWA compliance monitoring must use methods that provide sufficient detection capability to meet the detection limit requirements established in 40 CFR 141. The SDWA DL for radioactivity is defined in 40 CFR Part 141.25.c as the radionuclide concentration, which can be counted with a precision of plus or minus 100% at the 95% confidence level ( $1.96\sigma$ where $\sigma$ is the standard deviation of the net counting rate of the sample).
Deuterated Monitoring Compounds (DMCs)	DoD- SIM specific surrogates as specified for GC/MS SIM analysis.
Diesel Range Organics (DRO)	A range of compounds that denote all the characteristic compounds that make up diesel fuel (range can be state or program specific).
Digestion	DoD- A process in which a sample is treated (usually in conjunction with heat and acid) to convert the target analytes in the sample to a more easily measured form.
Document Control	The act of ensuring that documents (and revisions thereto) are proposed, reviewed for accuracy, approved for release by authorized personnel, distributed properly and controlled to ensure use of the correct version at the location where the prescribed activity is performed.
Documents	DoD- Written components of the laboratory management system (e.g., policies, procedures, and instructions).
Dry Weight	The weight after drying in an oven at a specified temperature.
Duplicate (also known as Replicate or Laboratory Duplicate)	The analyses or measurements of the variable of interest performed identically on two subsamples of the same sample. The results of duplicate analyses are used to evaluate analytical or measurement precision but not the precision of sampling, preservation or storage internal to the laboratory.
Electron Capture Detector (ECD)	Device used in GC methods to detect compounds that absorb electrons (e.g., PCB compounds).
Electronic Data Deliverable (EDD)	A summary of environmental data (usually in spreadsheet form) which clients request for ease of data review and comparison to historical results.
Eluent	A solvent used to carry the components of a mixture through a stationary phase.
Elute	To extract, specifically, to remove (absorbed material) from an adsorbent by means of a solvent.
Elution	A process in which solutes are washed through a stationary phase by movement of a mobile phase.
Environmental Data	DoD- Any measurements or information that describe environmental processes, locations, or conditions; ecological or health effects and consequences; or the performance of environmental technology.
Environmental Monitoring	The process of measuring or collecting environmental data.
Environmental Protection Agency (EPA)	An agency of the federal government of the United States which was created for the purpose of protecting human health and the environment by writing and enforcing regulations based on laws passed by Congress.
Environmental Sample	A representative sample of any material (aqueous, non-aqueous, or multimedia) collected from any source for which determination of composition or contamination is requested or required. Environmental samples can generally be classified as follows: <ul style="list-style-type: none"> <li>• Non Potable Water (Includes surface water, ground water, effluents, water treatment chemicals, and TCLP leachates or other extracts)</li> <li>• Drinking Water - Delivered (treated or untreated) water designated as potable water</li> <li>• Water/Wastewater - Raw source waters for public drinking water supplies, ground waters, municipal influents/effluents, and industrial influents/effluents</li> <li>• Sludge - Municipal sludges and industrial sludges.</li> <li>• Soil - Predominately inorganic matter ranging in classification from sands to clays.</li> <li>• Waste - Aqueous and non-aqueous liquid wastes, chemical solids, and industrial liquid and solid wastes</li> </ul>
Equipment Blank	A sample of analyte-free media used to rinse common sampling equipment to check effectiveness of decontamination procedures.
Extracted Internal Standard Analyte	Isotopically labeled analogs of analytes of interest added to all standards, blanks and samples analyzed. Added to samples and batch QC samples prior to the first step of sample extraction and to standards and instrument blanks prior to analysis. Used for isotope dilution methods.
Facility	A distinct location within the company that has unique certifications, personnel and waste disposal identifications.
False Negative	DoD- A result that fails to identify (detect) an analyte or reporting an analyte to be present at or below a level of interest when the analyte is actually above the level of interest.
False Positive	DoD- A result that erroneously identifies (detects) an analyte or reporting an analyte to be present above a level of interest when the analyte is actually present at or below the level of interest.



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Field Blank	A blank sample prepared in the field by filling a clean container with reagent water and appropriate preservative, if any, for the specific sampling activity being undertaken.
Field Measurement	Determination of physical, biological, or radiological properties, or chemical constituents that are measured on-site, close in time and space to the matrices being sampled/measured, following accepted test methods. This testing is performed in the field outside of a fixed-laboratory or outside of an enclosed structure that meets the requirements of a mobile laboratory.
Field of Accreditation	TNI- Those matrix, technology/method, and analyte combinations for which the accreditation body offers accreditation.
Field of Proficiency Testing (FoPT)	TNI- Matrix, technology/method, analyte combinations for which the composition, spike concentration ranges and acceptance criteria have been established by the PTPEC.
Finding	TNI- An assessment conclusion referenced to a laboratory accreditation standard and supported by objective evidence that identifies a deviation from a laboratory accreditation standard requirement. DoD- An assessment conclusion that identifies a condition having a significant effect on an item or activity. An assessment finding may be positive, negative, or neutral and is normally accompanied by specific examples of the observed condition. The finding must be linked to a specific requirement (e.g., this standard, ISO requirements, analytical methods, contract specifications, or laboratory management systems requirements).
Flame Atomic Absorption Spectrometer (FAA)	Instrumentation used to measure the concentration of metals in an environmental sample based on the fact that ground state metals absorb light at different wavelengths. Metals in a solution are converted to the atomic state by use of a flame.
Flame Ionization Detector (FID)	A type of gas detector used in GC analysis where samples are passed through a flame which ionizes the sample so that various ions can be measured.
Gas Chromatography (GC)	Instrumentation which utilizes a mobile carrier gas to deliver an environmental sample across a stationary phase with the intent to separate compounds out and measure their retention times.
Gas Chromatograph/Mass Spectrometry (GC/MS)	In conjunction with a GC, this instrumentation utilizes a mass spectrometer which measures fragments of compounds and determines their identity by their fragmentation patterns (mass spectra).
Gasoline Range Organics (GRO)	A range of compounds that denote all the characteristic compounds that make up gasoline (range can be state or program specific).
Graphite Furnace Atomic Absorption Spectrometry (GFAA)	Instrumentation used to measure the concentration of metals in an environmental sample based on the absorption of light at different wavelengths that are characteristic of different analytes.
High Pressure Liquid Chromatography (HPLC)	Instrumentation used to separate, identify and quantitate compounds based on retention times which are dependent on interactions between a mobile phase and a stationary phase.
Holding Time	TNI- The maximum time that can elapse between two specified activities. 40 CFR Part 136- The maximum time that samples may be held prior to preparation and/or analysis as defined by the method and still be considered valid or not compromised. For sample prep purposes, hold times are calculated using the time of the start of the preparation procedure. DoD- The maximum time that may elapse from the time of sampling to the time of preparation or analysis, or from preparation to analysis, as appropriate.
Homogeneity	The degree to which a property or substance is uniformly distributed throughout a sample.
Homologue	One in a series of organic compounds in which each successive member has one more chemical group in its molecule than the next preceding member. For instance, methanol, ethanol, propanol, butanol, etc., form a homologous series.
Improper Actions	DoD- Intentional or unintentional deviations from contract-specified or method-specified analytical practices that have not been authorized by the customer (e.g., DoD or DOE).
Incremental Sampling Method (ISM)	Soil preparation for large volume (1 kg or greater) samples.
In-Depth Data Monitoring	TNI- When used in the context of data integrity activities, a review and evaluation of documentation related to all aspects of the data generation process that includes items such as preparation, equipment, software, calculations, and quality controls. Such monitoring shall determine if the laboratory uses appropriate data handling, data use and data reduction activities to support the laboratory's data integrity policies and procedures.
Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)	Analytical technique used for the detection of trace metals which uses plasma to produce excited atoms that emit radiation of characteristic wavelengths.



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Inductively Coupled Plasma- Mass Spectrometry (ICP/MS)	An ICP that is used in conjunction with a mass spectrometer so that the instrument is not only capable of detecting trace amounts of metals and non-metals but is also capable of monitoring isotopic speciation for the ions of choice.
Infrared Spectrometer (IR)	An instrument that uses infrared light to identify compounds of interest.
Initial Calibration (ICAL)	The process of analyzing standards, prepared at specified concentrations, to define the quantitative response relationship of the instrument to the analytes of interest. Initial calibration is performed whenever the results of a calibration verification standard do not conform to the requirements of the method in use or at a frequency specified in the method.
Initial Calibration Blank (ICB)	A blank sample used to monitor the cleanliness of an analytical system at a frequency determined by the analytical method. This blank is specifically run in conjunction with the Initial Calibration Verification (ICV) where applicable.
Initial Calibration Verification (ICV)	DoD- Verifies the initial calibration with a standard obtained or prepared from a source independent of the source of the initial calibration standards to avoid potential bias of the initial calibration.
Injection Internal Standard Analyte	Isotopically labeled analogs of analytes of interest (or similar in physiochemical properties to the target analytes but with a distinct response) to be quantitated. Added to all blanks, standards, samples and batch QC after extraction and prior to analysis.
Instrument Blank	A clean sample (e.g., distilled water) processed through the instrumental steps of the measurement process; used to determine instrument contamination.
Instrument Detection Limits (IDLs)	Limits determined by analyzing a series of reagent blank analyses to obtain a calculated concentration. IDLs are determined by calculating the average of the standard deviations of three runs on three non-consecutive days from the analysis of a reagent blank solution with seven consecutive measurements per day.
Interference, spectral	Occurs when particulate matter from the atomization scatters incident radiation from the source or when the absorption or emission from an interfering species either overlaps or is so close to the analyte wavelength that resolution becomes impossible.
Interference, chemical	Results from the various chemical processes that occur during atomization and later the absorption characteristics of the analyte.
Internal Standard	TNI and DoD- A known amount of standard added to a test portion of a sample as a reference for evaluating and controlling the precision and bias of the applied analytical method.
International Organization for Standardization (ISO)	An international standard-setting body composed of representatives from various national standards organizations.
Intermediate Standard Solution	Reference solutions prepared by dilution of the stock solutions with an appropriate solvent.
International System of Units (SI)	The coherent system of units adopted and recommended by the General Conference on Weights and Measures.
Ion Chromatography (IC)	Instrumentation or process that allows the separation of ions and molecules based on the charge properties of the molecules.
Isomer	One of two or more compounds, radicals, or ions that contain the same number of atoms of the same element but differ in structural arrangement and properties. For example, hexane (C <sub>6</sub> H <sub>14</sub> ) could be n-hexane, 2-methylpentane, 3-methylpentane, 2,3-dimethylbutane, 2,2-dimethylbutane.
Laboratory	A body that calibrates and/or performs testing.
Laboratory Control Sample (LCS)	TNI- (also known as laboratory fortified blank (LFB), spiked blank, or QC check sample): A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes and taken through all sample preparation and analytical steps of the procedure unless otherwise noted in a reference method. It is generally used to establish intra-laboratory or analyst-specific precision and bias or to evaluate the performance of all or a portion of the measurement system.
Laboratory Duplicate	Aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently.
Laboratory Information Management System (LIMS)	DoD- The entirety of an electronic data system (including hardware and software) that collects, analyzes, stores, and archives electronic records and documents.
Learning Management System (LMS)	A web-based database used by the laboratories to track and document training activities. The system is administered by the corporate training department and each laboratory's learn centers are maintained by a local administrator.



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Legal Chain-of-Custody Protocols	TNI- Procedures employed to record the possession of samples from the time of sampling through the retention time specified by the client or program. These procedures are performed at the special request of the client and include the use of a Chain-of-Custody (COC) Form that documents the collection, transport, and receipt of compliance samples by the laboratory. In addition, these protocols document all handling of the samples within the laboratory.
Limit(s) of Detection (LOD)	TNI- The minimum result, which can be reliably discriminated from a blank with predetermined confidence level. DoD- The smallest concentration of a substance that must be present in a sample in order to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%. A LOD may be used as the lowest concentration for reliably reporting a non-detect of a specific analyte in a specific matrix with a specific method at 99% confidence.
Limit(s) of Quantitation (LOQ)	TNI- The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. DoD- The smallest concentration that produces a quantitative result with known and recorded precision and bias. For DoD/DOE projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard and within the calibration range.
Linear Dynamic Range	DoD- Concentration range where the instrument provides a linear response.
Liquid chromatography/tandem mass spectrometry (LC/MS/MS)	Instrumentation that combines the physical separation techniques of liquid chromatography with the mass analysis capabilities of mass spectrometry.
Lot	TNI- A definite amount of material produced during a single manufacturing cycle, and intended to have uniform character and quality.
Management	Those individuals directly responsible and accountable for planning, implementing, and assessing work.
Management System	System to establish policy and objectives and to achieve those objectives.
Manager (however named)	The individual designated as being responsible for the overall operation, all personnel, and the physical plant of the environmental laboratory. A supervisor may report to the manager. In some cases, the supervisor and the manager may be the same individual.
Matrix	TNI- The substrate of a test sample.
Matrix Duplicate	TNI- A replicate matrix prepared in the laboratory and analyzed to obtain a measure of precision.
Matrix Spike (MS) (spiked sample or fortified sample)	TNI- A sample prepared, taken through all sample preparation and analytical steps of the procedure unless otherwise noted in a referenced method, by adding a known amount of target analyte to a specified amount of sample for which an independent test result of target analyte concentration is available. Matrix spikes are used, for example, to determine the effect of the matrix on a method's recovery efficiency.
Matrix Spike Duplicate (MSD) (spiked sample or fortified sample duplicate)	TNI- A replicate matrix spike prepared in the laboratory and analyzed to obtain a measure of the precision of the recovery for each analyte.
Measurement Performance Criteria (MPC)	DoD- Criteria that may be general (such as completion of all tests) or specific (such as QC method acceptance limits) that are used by a project to judge whether a laboratory can perform a specified activity to the defined criteria.
Measurement Quality Objective (MQO)	TNI- The analytical data requirements of the data quality objectives are project- or program-specific and can be quantitative or qualitative. MQOs are measurement performance criteria or objectives of the analytical process. Examples of quantitative MQOs include statements of required analyte detectability and the uncertainty of the analytical protocol at a specified radionuclide activity, such as the action level. Examples of qualitative MQOs include statements of the required specificity of the analytical protocol, e.g., the ability to analyze for the radionuclide of interest given the presence of interferences.
Measurement System	TNI- A method, as implemented at a particular laboratory, and which includes the equipment used to perform the test and the operator(s). DoD- A test method, as implemented at a particular laboratory, and which includes the equipment used to perform the sample preparation and test and the operator(s).
Measurement Uncertainty	DoD- An estimate of the error in a measurement often stated as a range of values that contain the true value within a certain confidence level. The uncertainty generally includes many components which may be evaluated from experimental standard deviations based on repeated observations or by standard deviations evaluated from assumed probability distributions based on experience or other information. For DoD/DOE, a laboratory's Analytical Uncertainty (such as use of LCS control limits) can be reported as the minimum uncertainty.



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Method	TNI- A body of procedures and techniques for performing an activity (e.g., sampling, chemical analysis, quantification), systematically presented in the order in which they are to be executed.
Method Blank	TNI- A sample of a matrix similar to the batch of associated samples (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences are present at concentrations that impact the analytical results for sample analyses.
Method Detection Limit (MDL)	TNI- One way to establish a Detection Limit; defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte.
Method of Standard Additions	A set of procedures adding one or more increments of a standard solution to sample aliquots of the same size in order to overcome inherent matrix effects. The procedures encompass the extrapolation back to obtain the sample concentration.
Minimum Detectable Activity (MDA)	TNI- Estimate of the smallest true activity that ensures a specified high confidence, $1 - \beta$ , of detection above the Critical Value, and a low probability $\beta$ of false negatives below the Critical Value. For radiometric methods, $\beta$ is often set at 0.05. NOTE 1: The MDS is a measure of the detection capability of a measurement process and as such, it is an a priori concept. It may be used in the selection of methods to meet specified MQOs. Laboratories may also calculate a "sample specific" MDA, which indicates how well the measurement process is performing under varying real-world measurement conditions, when sample-specific characteristics (e.g., interferences) may affect the detection capability. However, the MDA must never be used instead of the Critical Value as a detection threshold. NOTE 2: For the purpose of this Standard, the terms MDA and minimum detectable concentration (MDC) are equivalent.
Minimum Reporting Limit (MRL)	the lowest concentration of standard used for calibration – Drinking Water Manual
MintMiner	Commercial software program used to scan large amounts of chromatographic data to monitor for errors or data integrity issues.
Mobile Laboratory	TNI- A portable enclosed structure with necessary and appropriate accommodation and environmental conditions for a laboratory, within which testing is performed by analysts. Examples include but are not limited to trailers, vans, and skid-mounted structures configured to house testing equipment and personnel.
National Environmental Laboratory Accreditation Conference (NELAC)	See definition of The NELAC Institute (TNI).
National Institute of Occupational Safety and Health (NIOSH)	National institute charged with the provision of training, consultation and information in the area of occupational safety and health.
National Institute of Standards and Technology (NIST)	TNI- A federal agency of the US Department of Commerce's Technology Administration that is designed as the United States national metrology institute (or NMI).
National Pollutant Discharge Elimination System (NPDES)	A permit program that controls water pollution by regulating point sources that discharge pollutants into U.S. waters.
Negative Control	Measures taken to ensure that a test, its components, or the environment do not cause undesired effects, or produce incorrect test results.
Nitrogen Phosphorus Detector (NPD)	A detector used in GC analyses that utilizes thermal energy to ionize an analyte. With this detector, nitrogen and phosphorus can be selectively detected with a higher sensitivity than carbon.
Nonconformance	An indication or judgment that a product or service has not met the requirement of the relevant specifications, contract, or regulation; also the state of failing to meet the requirements.
Not Detected (ND)	The result reported for a compound when the detected amount of that compound is less than the method reporting limit.
Operator Aid	DoD- A technical posting (such as poster, operating manual, or notepad) that assists workers in performing routine tasks. All operator aids must be controlled documents (i.e., a part of the laboratory management system).
Performance Based Measurement System (PBMS)	An analytical system wherein the data quality needs, mandates or limitations of a program or project are specified and serve as criteria for selecting appropriate test methods to meet those needs in a cost-effective manner.
Physical Parameter	TNI- A measurement of a physical characteristic or property of a sample as distinguished from the concentrations of chemical and biological components.





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Photo-ionization Detector (PID)	An ion detector which uses high-energy photons, typically in the ultraviolet range, to break molecules into positively charged ions.
Polychlorinated Biphenyls (PCB)	A class of organic compounds that were used as coolants and insulating fluids for transformers and capacitors. The production of these compounds was banned in the 1970's due to their high toxicity.
Positive Control	Measures taken to ensure that a test and/or its components are working properly and producing correct or expected results from positive test subjects.
Post-Digestion Spike	A sample prepared for metals analyses that has analytes spike added to determine if matrix effects may be a factor in the results.
Power of Hydrogen (pH)	The measure of acidity or alkalinity of a solution.
Practical Quantitation Limit (PQL)	Another term for a method reporting limit. The lowest reportable concentration of a compound based on parameters set up in an analytical method and the laboratory's ability to reproduce those conditions.
Precision	TNI- The degree to which a set of observations or measurements of the same property, obtained under similar conditions, conform to themselves; a data quality indicator. Precision is usually expressed as standard deviation, variance or range, in either absolute or relative terms.
Preservation	TNI and DoD- Any conditions under which a sample must be kept in order to maintain chemical, physical, and/or biological integrity prior to analysis.
Primary Accreditation Body (Primary AB)	TNI- The accreditation body responsible for assessing a laboratory's total quality system, on-site assessment, and PT performance tracking for fields of accreditation.
Procedure	TNI- A specified way to carry out an activity or process. Procedures can be documented or not.
Proficiency Testing (PT)	TNI- A means to evaluate a laboratory's performance under controlled conditions relative to a given set of criteria, through analysis of unknown samples provided by an external source.
Proficiency Testing Program (PT Program)	TNI- The aggregate of providing rigorously controlled and standardized environmental samples to a laboratory for analysis, reporting of results, statistical evaluation of the results and the collective demographics and results summary of all participating laboratories.
Proficiency Testing Provider (PT Provider)	TNI- A person or organization accredited by a TNI-approved Proficiency Testing Provider Accreditor to operate a TNI-compliant PT Program.
Proficiency Testing Provider Accreditor (PTPA)	TNI- An organization that is approved by TNI to accredit and monitor the performance of proficiency testing providers.
Proficiency Testing Reporting Limit (PTRL)	TNI- A statistically derived value that represents the lowest acceptable concentration for an analyte in a PT sample, if the analyte is spiked into the PT sample. The PTRLs are specified in the TNI FoPT tables.
Proficiency Testing Sample (PT)	TNI- A sample, the composition of which is unknown to the laboratory, and is provided to test whether the laboratory can produce analytical results within the specified acceptance criteria.
Proficiency Testing (PT) Study	TNI- a) Scheduled PT Study: A single complete sequence of circulation and scoring of PT samples to all participants in a PT program. The study must have the same pre-defined opening and closing dates for all participants; b) Supplemental PT Study: A PT sample that may be from a lot previously released by a PT Provider that meets the requirements for supplemental PT samples given in Volume 3 of this Standard [TNI] but that does not have a pre-determined opening date and closing date.
Proficiency Testing Study Closing Date	TNI- a) Scheduled PT Study: The calendar date by which all participating laboratories must submit analytical results for a PT sample to a PT Provider; b) Supplemental PT Study: The calendar date a laboratory submits the results for a PT sample to the PT Provider.
Proficiency Testing Study Opening Date	TNI- a) Scheduled PT Study: The calendar date that a PT sample is first made available to all participants of the study by a PT Provider; b) Supplemental PT Study: The calendar date the PT Provider ships the sample to a laboratory.
Protocol	TNI- A detailed written procedure for field and/or laboratory operation (e.g., sampling, analysis) that must be strictly followed.
Qualitative Analysis	DoD- Analysis designed to identify the components of a substance or mixture.
Quality Assurance (QA)	TNI- An integrated system of management activities involving planning, implementation, assessment, reporting and quality improvement to ensure that a process, item, or service is of the type and quality needed and expected by the client.
Quality Assurance Manual (QAM)	A document stating the management policies, objectives, principles, organizational structure and authority, responsibilities, accountability, and implementation of an agency, organization, or laboratory, to ensure the quality of its product and the utility of its product to its users.
Quality Assurance Project Plan (QAPP)	A formal document describing the detailed quality control procedures by which the quality requirements defined for the data and decisions pertaining to a specific project are to be achieved.



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Quality Control (QC)	TNI- The overall system of technical activities that measures the attributes and performance of a process, item, or service against defined standards to verify that they meet the stated requirements established by the customer; operational techniques and activities that are used to fulfill requirements for quality; also the system of activities and checks used to ensure that measurement systems are maintained within prescribed limits, providing protection against “out of control” conditions and ensuring that the results are of acceptable quality.
Quality Control Sample (QCS)	TNI- A sample used to assess the performance of all or a portion of the measurement system. One of any number of samples, such as Certified Reference Materials, a quality system matrix fortified by spiking, or actual samples fortified by spiking, intended to demonstrate that a measurement system or activity is in control.
Quality Manual	TNI- A document stating the management policies, objectives, principles, organizational structure and authority, responsibilities, accountability, and implementation of an agency, organization, or laboratory, to ensure the quality of its product and the utility of its product to its users.
Quality System	TNI and DoD- A structured and documented management system describing the policies, objectives, principles, organizational authority, responsibilities, accountability, and implementation plan of an organization for ensuring quality in its work processes, products (items), and services. The quality system provides the framework for planning, implementing, and assessing work performed by the organization and for carrying out required quality assurance and quality control activities.
Quality System Matrix	TNI and DoD- These matrix definitions shall be used for purposes of batch and quality control requirements and may be different from a field of accreditation matrix: <ul style="list-style-type: none"> <li>• <b>Air and Emissions:</b> Whole gas or vapor samples including those contained in flexible or rigid wall containers and the extracted concentrated analytes of interest from a gas or vapor that are collected with a sorbant tube, impinger solution, filter, or other device</li> <li>• <b>Aqueous:</b> Any aqueous sample excluded from the definition of Drinking Water or Saline/Estuarine. Includes surface water, groundwater effluents, and TCLP or other extracts.</li> <li>• <b>Biological Tissue:</b> Any sample of a biological origin such as fish tissue, shellfish or plant material. Such samples shall be grouped according to origin.</li> <li>• <b>Chemical Waste:</b> A product or by-product of an industrial process that results in a matrix not previously defined.</li> <li>• <b>Drinking Water:</b> Any aqueous sample that has been designated a potable or potentially potable water source.</li> <li>• <b>Non-aqueous liquid:</b> Any organic liquid with &lt;15% settleable solids</li> <li>• <b>Saline/Estuarine:</b> Any aqueous sample from an ocean or estuary, or other salt water source such as the Great Salt Lake.</li> <li>• <b>Solids:</b> Includes soils, sediments, sludges, and other matrices with &gt;15% settleable solids.</li> </ul>
Quantitation Range	DoD- The range of values (concentrations) in a calibration curve between the LOQ and the highest successively analyzed initial calibration standard used to relate instrument response to analyte concentration. The quantitation range (adjusted for initial sample volume/weight, concentration/dilution and final volume) lies within the calibration range.
Quantitative Analysis	DoD- Analysis designed to determine the amounts or proportions of the components of a substance.
Random Error	The EPA has established that there is a 5% probability that the results obtained for any one analyte will exceed the control limits established for the test due to random error. As the number of compounds measured increases in a given sample, the probability for statistical error also increases.
Raw Data	TNI- The documentation generated during sampling and analysis. This documentation includes, but is not limited to, field notes, electronic data, magnetic tapes, untabulated sample results, QC sample results, print outs of chromatograms, instrument outputs, and handwritten records.
Reagent Blank (method reagent blank)	A sample consisting of reagent(s), without the target analyte or sample matrix, introduced into the analytical procedure at the appropriate point and carried through all subsequent steps to determine the contribution of the reagents and of the involved analytical steps.
Reagent Grade	Analytical reagent (AR) grade, ACS reagent grade, and reagent grade are synonymous terms for reagents that conform to the current specifications of the Committee on Analytical Reagents of the American Chemical Society.
Records	DoD- The output of implementing and following management system documents (e.g., test data in electronic or hand-written forms, files, and logbooks).



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Reference Material	TNI- Material or substance one or more of whose property values are sufficiently homogenized and well established to be used for the calibration of an apparatus, the assessment of a measurement method, or for assigning values to materials.
Reference Method	TNI- A published method issued by an organization generally recognized as competent to do so. (When the ISO language refers to a “standard method”, that term is equivalent to “reference method”). When a laboratory is required to analyze by a specified method due to a regulatory requirement, the analyte/method combination is recognized as a reference method. If there is no regulatory requirement for the analyte/method combination, the analyte/method combination is recognized as a reference method if it can be analyzed by another reference method of the same matrix and technology.
Reference Standard	TNI- Standard used for the calibration of working measurement standards in a given organization or at a given location.
Relative Percent Difference (RPD)	A measure of precision defined as the difference between two measurements divided by the average concentration of the two measurements.
Reporting Limit (RL)	The level at which method, permit, regulatory and customer-specific objectives are met. The reporting limit may never be lower than the Limit of Detection (i.e., statistically determined MDL). Reporting limits are corrected for sample amounts, including the dry weight of solids, unless otherwise specified. There must be a sufficient buffer between the Reporting Limit and the MDL. DoD- A customer-specified lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
Reporting Limit Verification Standard (RLVS)	A standard analyzed at the reporting limit for an analysis to verify the laboratory’s ability to report to that level.
Representativeness	A quality element related to the ability to collect a sample reflecting the characteristics of the part of the environment to be assessed. Sample representativeness is dependent on the sampling techniques specified in the project work plan.
Requirement	Denotes a mandatory specification; often designated by the term “shall”.
Retention Time	The time between sample injection and the appearance of a solute peak at the detector.
Revocation	TNI- The total or partial withdrawal of a laboratory’s accreditation by an accreditation body.
Sample	Portion of material collected for analysis, identified by a single, unique alphanumeric code. A sample may consist of portions in multiple containers, if a single sample is submitted for multiple or repetitive analysis.
Sample Condition Upon Receipt Form (SCURF)	Form used by sample receiving personnel to document the condition of sample containers upon receipt to the laboratory (used in conjunction with a COC).
Sample Delivery Group (SDG)	A unit within a single project that is used to identify a group of samples for delivery. An SDG is a group of 20 or fewer field samples within a project, received over a period of up to 14 calendar days. Data from all samples in an SDG are reported concurrently.
Sample Receipt Form (SRF)	Letter sent to the client upon login to show the tests requested and pricing.
Sample Tracking	Procedures employed to record the possession of the samples from the time of sampling until analysis, reporting and archiving. These procedures include the use of a chain-of-custody form that documents the collection, transport, and receipt of compliance samples to the laboratory. In addition, access to the laboratory is limited and controlled to protect the integrity of the samples.
Sampling	TNI- Activity related to obtaining a representative sample of the object of conformity assessment, according to a procedure.
Selected Ion Monitoring (SIM)	A mode of analysis in mass spectrometry where the detector is set to scan over a very small mass range, typically one mass unit. The narrower the range, the more sensitive the detector. DoD- Using GC/MS, characteristic ions specific to target compounds are detected and used to quantify in applications where the normal full scan mass spectrometry results in excessive noise.
Selectivity	TNI- The ability to analyze, distinguish, and determine a specific analyte or parameter from another component that may be a potential interferent or that may behave similarly to the target analyte or parameter within the measurement system.
Sensitivity	TNI- The capability of a method or instrument to discriminate between measurement responses representing different levels (e.g., concentrations) of a variable of interest.
Serial Dilution	The stepwise dilution of a substance in a solution.
Shall	Denotes a requirement that is mandatory whenever the criterion for conformance with the specification requires that there be no deviation. This does not prohibit the use of alternative approaches or methods for implementing the specification as long as the requirement is fulfilled.
Should	Denotes a guideline or recommendation whenever noncompliance with the specification is permissible.



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Signal-to-Noise Ratio (S/N)	DoD- A measure of signal strength relative to background noise. The average strength of the noise of most measurements is constant and independent of the magnitude of the signal. Thus, as the quantity being measured (producing the signal) decreases in magnitude, S/N decreases and the effect of the noise on the relative error of a measurement increases.
Source Water	TNI- When sampled for drinking water compliance, untreated water from streams, rivers, lakes, or underground aquifers, which is used to supply private and public drinking water supplies.
Spike	A known mass of target analyte added to a blank sample or sub-sample; used to determine recovery efficiency or for other quality control purposes.
Standard (Document)	TNI- The document describing the elements of a laboratory accreditation that has been developed and established within the consensus principles of standard setting and meets the approval requirements of standard adoption organizations procedures and policies.
Standard (Chemical)	Standard samples are comprised of a known amount of standard reference material in the matrix undergoing analysis. A standard reference material is a certified reference material produced by US NIST and characterized for absolute content, independent of analytical test method.
Standard Blank (or Reagent Blank)	A calibration standard consisting of the same solvent/reagent matrix used to prepare the calibration standards without the analytes. It is used to construct the calibration curve by establishing instrument background.
Standard Method	A test method issued by an organization generally recognized as competent to do so.
Standard Operating Procedure (SOP)	TNI- A written document that details the method for an operation, analysis, or action with thoroughly prescribed techniques and steps. SOPs are officially approved as the methods for performing certain routine or repetitive tasks.
Standard Reference Material (SRM)	A certified reference material produced by the US NIST or other equivalent organization and characterized for absolute content, independent of analytical method.
Statement of Qualifications (SOQ)	A document that lists information about a company, typically the qualifications of that company to compete on a bid for services.
Stock Standard	A concentrated reference solution containing one or more analytes prepared in the laboratory using an assayed reference compound or purchased from a reputable commercial source.
Storage Blank	DoD- A sample of analyte-free media prepared by the laboratory and retained in the sample storage area of the laboratory. A storage blank is used to record contamination attributable to sample storage at the laboratory.
Supervisor	The individual(s) designated as being responsible for a particular area or category of scientific analysis. This responsibility includes direct day-to-day supervision of technical employees, supply and instrument adequacy and upkeep, quality assurance/quality control duties and ascertaining that technical employees have the required balance of education, training and experience to perform the required analyses.
Surrogate	DoD- A substance with properties that mimic the analyte of interest. It is unlikely to be found in environmental samples and is added to them for quality control purposes.
Suspension	TNI- The temporary removal of a laboratory's accreditation for a defined period of time, which shall not exceed 6 months or the period of accreditation, whichever is longer, in order to allow the laboratory time to correct deficiencies or area of non-conformance with the Standard.
Systems Audit	An on-site inspection or assessment of a laboratory's quality system.
Target Analytes	DoD- Analytes or chemicals of primary concern identified by the customer on a project-specific basis.
Technical Director	Individual(s) who has overall responsibility for the technical operation of the environmental testing laboratory.
Technology	TNI- A specific arrangement of analytical instruments, detection systems, and/or preparation techniques.
Test	A technical operation that consists of the determination of one or more characteristics or performance of a given product, material, equipment, organism, physical phenomenon, process or service according to a specified procedure. The result of a test is normally recorded in a document sometimes called a test report or a test certificate.
Test Method	DoD- A definitive procedure that determines one or more characteristics of a given substance or product.
Test Methods for Evaluating Solid Waste, Physical/ Chemical (SW-846)	EPA Waste's official compendium of analytical and sampling methods that have been evaluated and approved for use in complying with RCRA regulations.
Test Source	TNI- A radioactive source that is tested, such as a sample, calibration standard, or performance check source. A Test Source may also be free of radioactivity, such as a Test Source counted to determine the subtraction background, or a short-term background check.



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The NELAC Institute (TNI)	A non-profit organization whose mission is to foster the generation of environmental data of known and documented quality through an open, inclusive, and transparent process that is responsive to the needs of the community. Previously known as NELAC (National Environmental Laboratory Accreditation Conference).
Total Petroleum Hydrocarbons (TPH)	A term used to denote a large family of several hundred chemical compounds that originate from crude oil. Compounds may include gasoline components, jet fuel, volatile organics, etc.
Toxicity Characteristic Leaching Procedure (TCLP)	A solid sample extraction method for chemical analysis employed as an analytical method to simulate leaching of compounds through a landfill.
Traceability	TNI- The ability to trace the history, application, or location of an entity by means of recorded identifications. In a calibration sense, traceability relates measuring equipment to national or international standards, primary standards, basic physical conditions or properties, or reference materials. In a data collection sense, it relates calculations and data generated throughout the project back to the requirements for the quality of the project.
Training Document	A training resource that provides detailed instructions to execute a specific method or job function.
Trip Blank	This blank sample is used to detect sample contamination from the container and preservative during transport and storage of the sample. A cleaned sample container is filled with laboratory reagent water and the blank is stored, shipped, and analyzed with its associated samples.
Tuning	A check and/or adjustment of instrument performance for mass spectrometry as required by the method.
Ultraviolet Spectrophotometer (UV)	Instrument routinely used in quantitative determination of solutions of transition metal ions and highly conjugated organic compounds.
Uncertainty, Counting	TNI- The component of Measurement Uncertainty attributable to the random nature of radioactive decay and radiation counting (often estimated as the square root of observed counts (MARIAP). Older references sometimes refer to this parameter as Error, Counting Error or Count Error (c.f., Total Uncertainty).
Uncertainty, Expanded	TNI- The product of the Standard Uncertainty and a coverage factor, $k$ , which is chosen to produce an interval about the result that has a high probability of containing the value of the measurand (c.f., Standard Uncertainty). NOTE: Radiochemical results are generally reported in association with the Total Uncertainty. Either if these estimates of uncertainty can be reported as the Standard Uncertainty (one-sigma) or as an Expanded Uncertainty ( $k$ -sigma, where $k > 1$ ).
Uncertainty, Measurement	TNI- Parameter associated with the result of a measurement that characterizes the dispersion of the values that could reasonably be attributed to the measurand.
Uncertainty, Standard	TNI- An estimate of the Measurement Uncertainty expressed as a standard deviation (c.f., Expanded Uncertainty).
Uncertainty, Total	TNI- An estimate of the Measurement Uncertainty that accounts for contributions from all significant sources of uncertainty associated with the analytical preparation and measurement of a sample. Such estimates are also commonly referred to as Combined Standard Uncertainty or Total Propagated Uncertainty, and in some older references as the Total Propagated Error, among other similar items (c.f., Counting Uncertainty).
Unethical actions	DoD- Deliberate falsification of analytical or quality control results where failed method or contractual requirements are made to appear acceptable.
United States Department of Agriculture (USDA)	A department of the federal government that provides leadership on food, agriculture, natural resources, rural development, nutrition and related issues based on public policy, the best available science, and effective management.
United States Geological Survey (USGS)	Program of the federal government that develops new methods and tools to supply timely, relevant, and useful information about the Earth and its processes.
Unregulated Contaminant Monitoring Rule (UCMR)	EPA program to monitor unregulated contaminants in drinking water.
Validation	DoD- The confirmation by examination and provision of objective evidence that the particular requirements for a specific intended use are fulfilled.
Verification	TNI- Confirmation by examination and objective evidence that specified requirements have been met. In connection with the management of measuring equipment, verification provides a means for checking that the deviations between values indicated by a measuring instrument and corresponding known values of a measured quantity are consistently smaller than the maximum allowable error defined in a standard, regulation or specification peculiar to the management of the measuring equipment.



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Voluntary Action Program (VAP)	A program of the Ohio EPA that gives individuals a way to investigate possible environmental contamination, clean it up if necessary and receive a promise from the State of Ohio that no more cleanup is needed.
Whole Effluent Toxicity (WET)	The aggregate toxic effect to aquatic organisms from all pollutants contained in a facility's wastewater (effluent).



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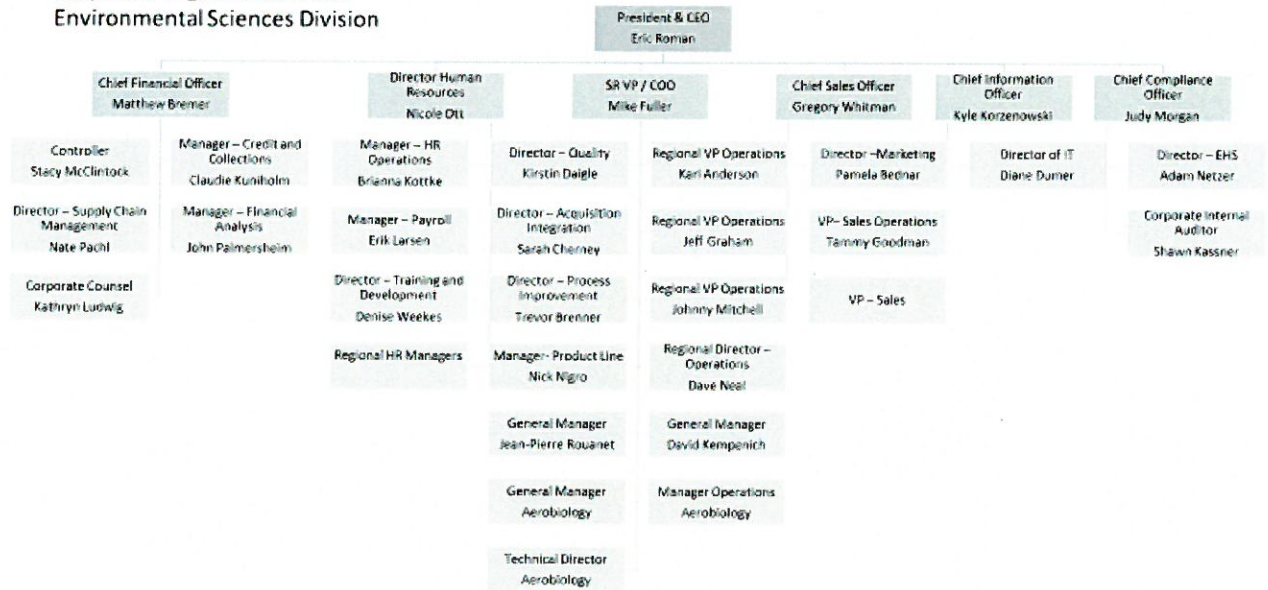
**7.4 Appendix D: Organization Chart(s)**

**7.4.1 Corporate Organization Chart**

Disclaimer: The following organization chart shows the structure of the and the relationships and relative ranks of its parts and positions/jobs in place on the date this version of this manual was published. This information is subject to change; contact the Quality Manager for the most current version.



**Corporate Organization Chart**  
**Environmental Sciences Division**





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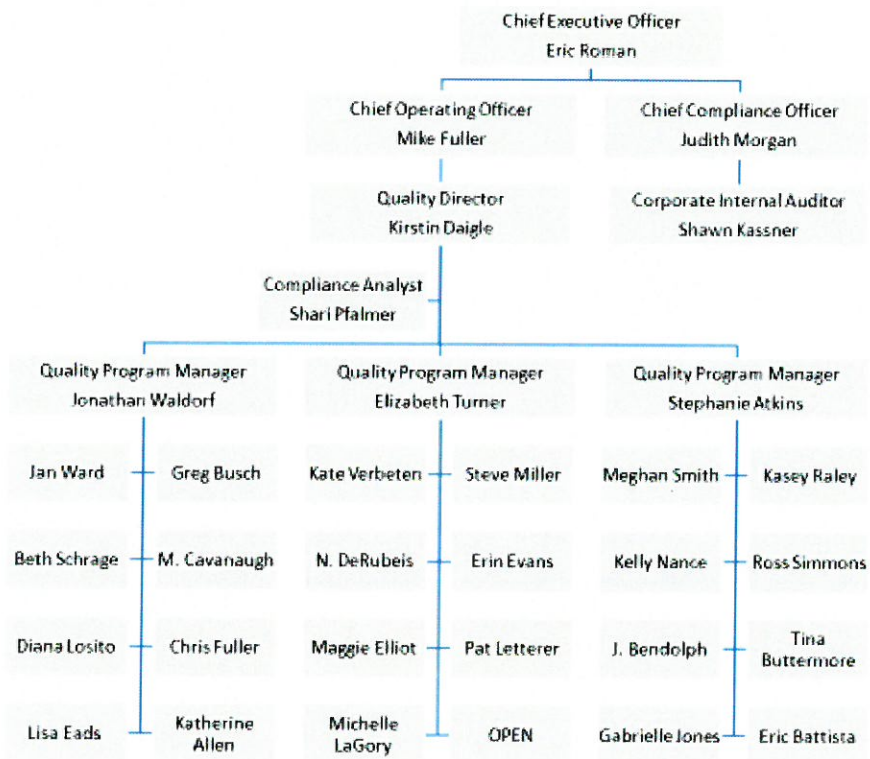
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**7.4.2 Quality Systems Management**

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**Quality Systems Management**  
**Environmental Sciences Division**



**Local Quality Managers**

Each QM has a direct reporting relationship to a Quality Program Manager and an indirect reporting relationship to the General Manager of each location for which the QM is assigned.



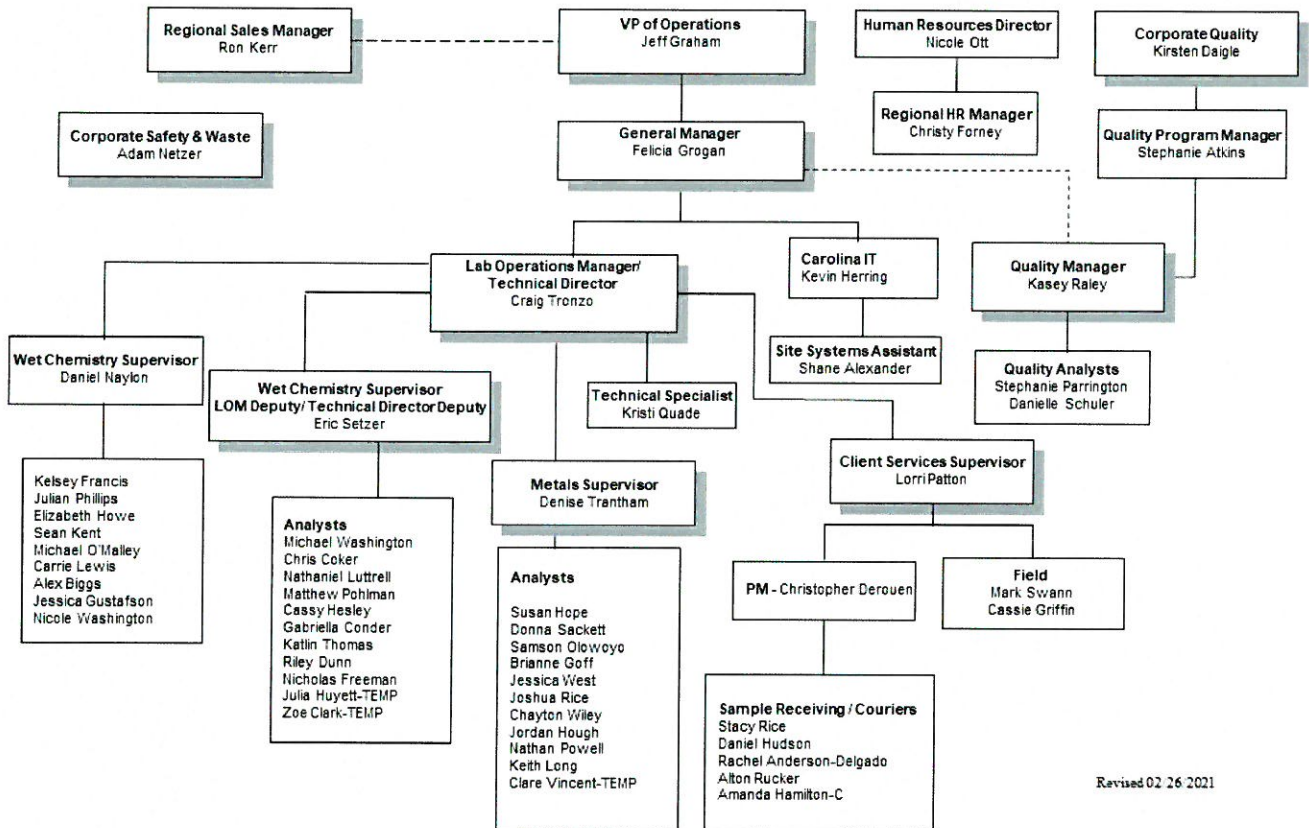


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**7.4.3 PAS–Asheville**

**Pace Carolina’s Asheville Laboratory Organization Chart**



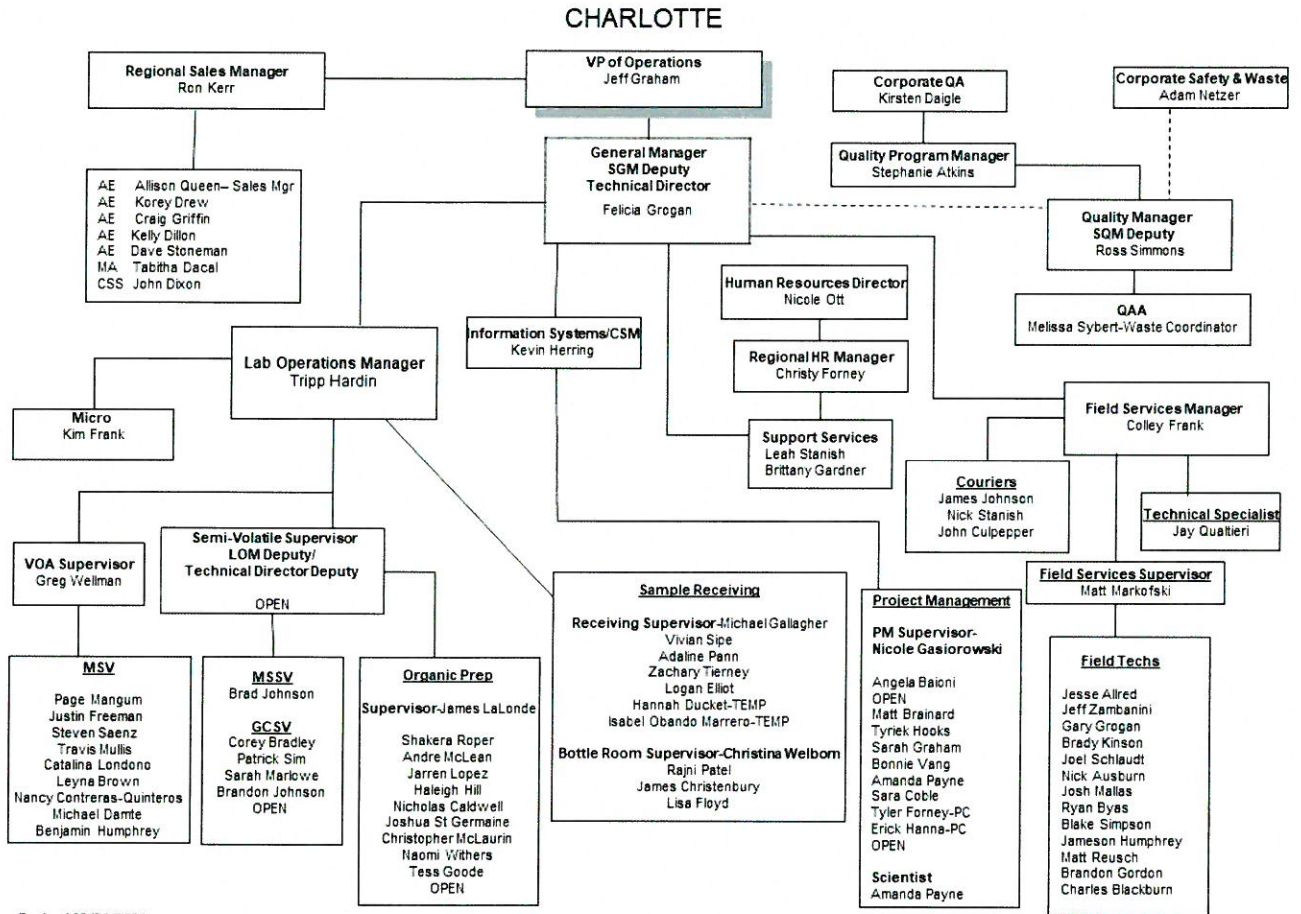
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7.4.4 PAS-Huntersville (Charlotte)

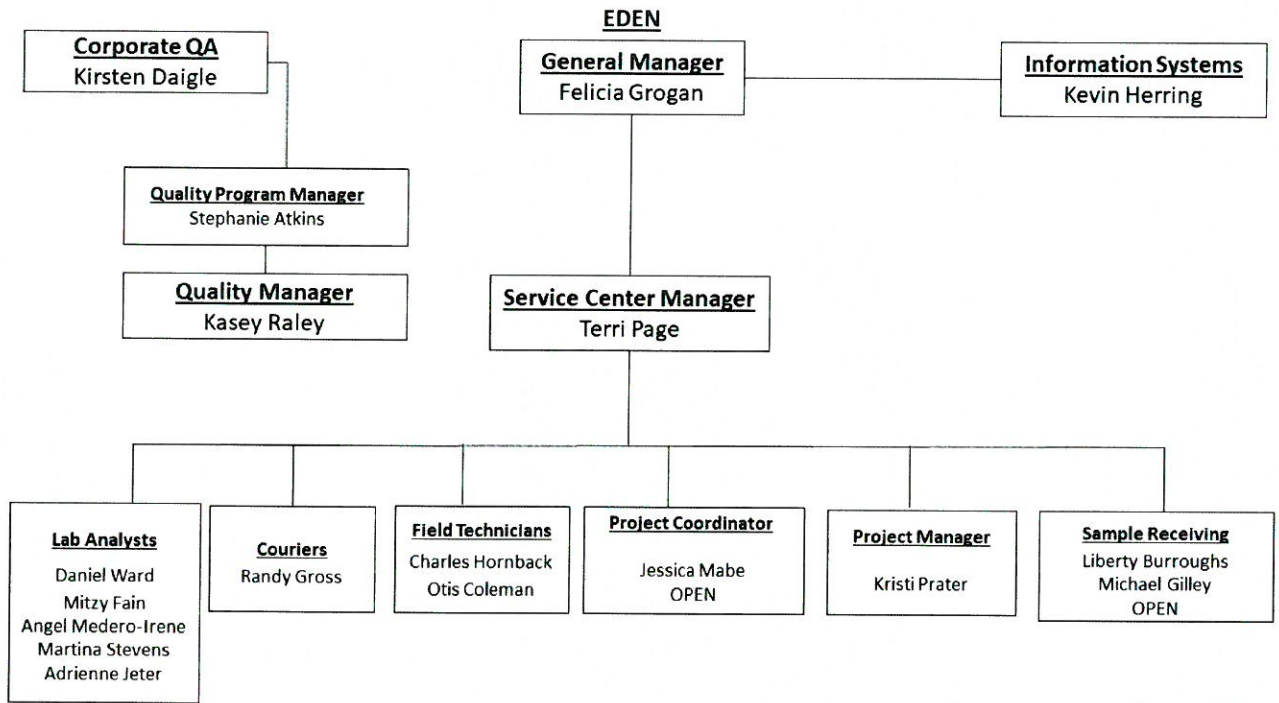




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7.4.5 **PAS-Eden**



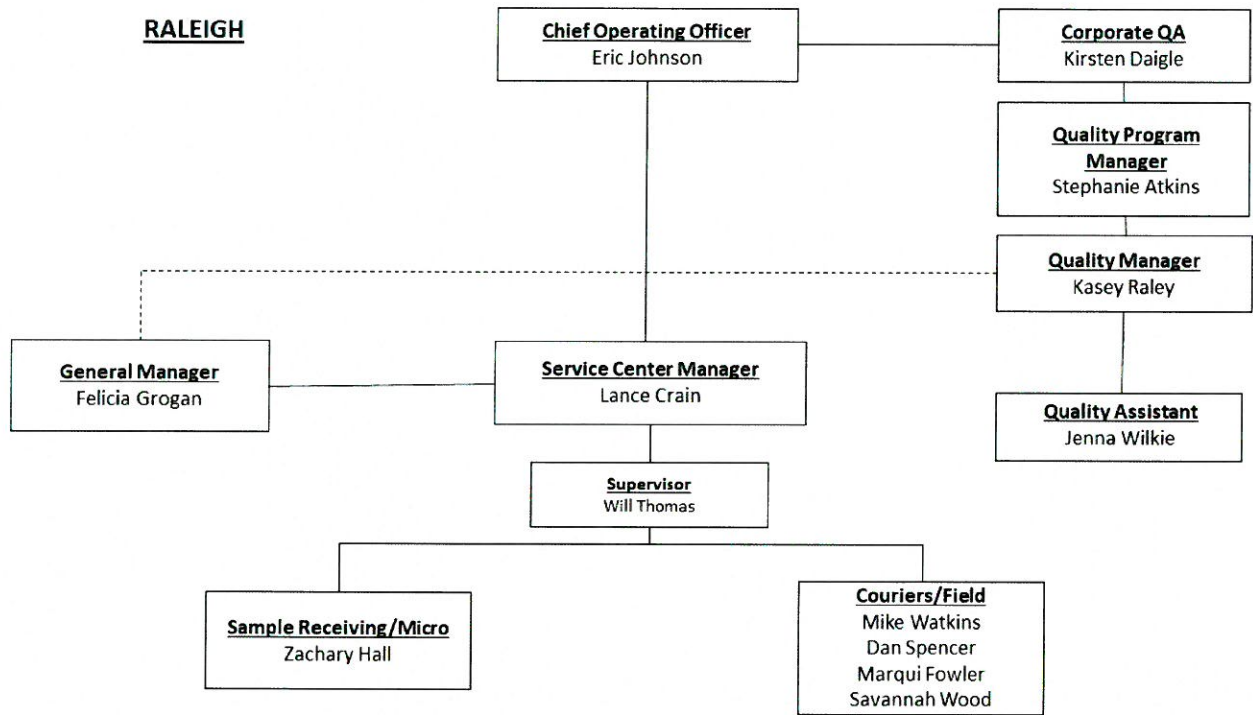
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**7.4.6 PAS–Raleigh**



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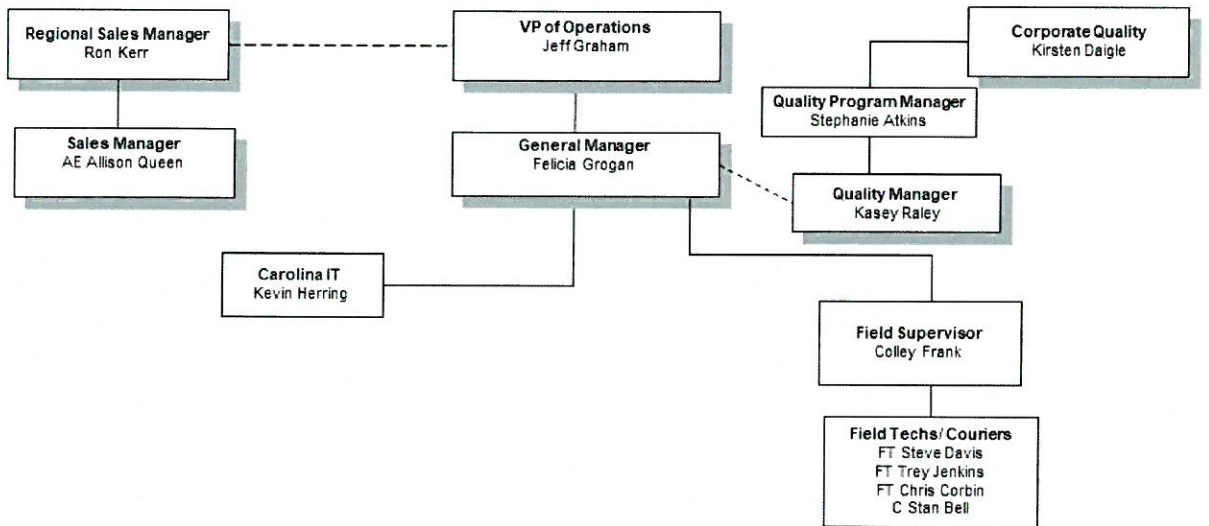
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**7.4.7 PAS–Greenwood**

**Pace Carolina's Greenwood Service Center Organization Chart**



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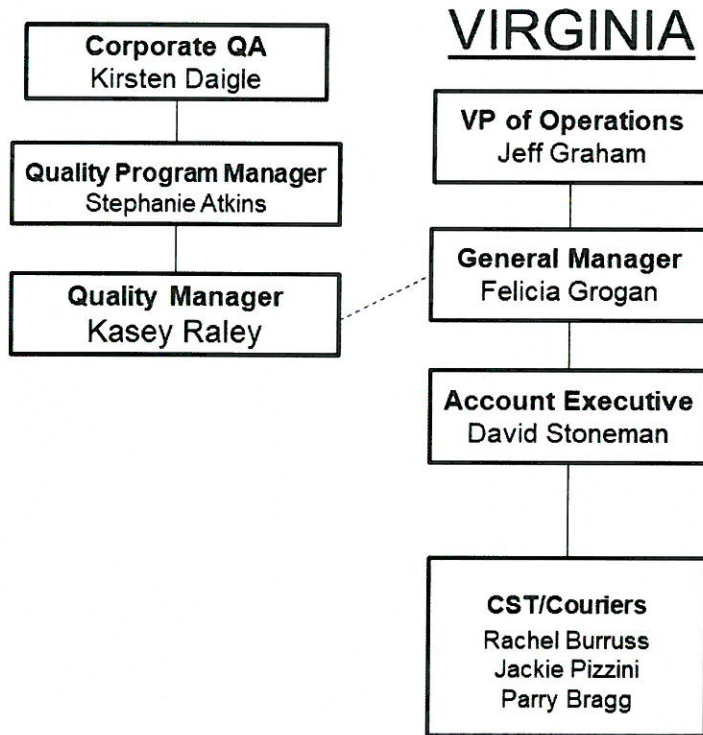
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**7.4.8 PAS–Mechanicsville**



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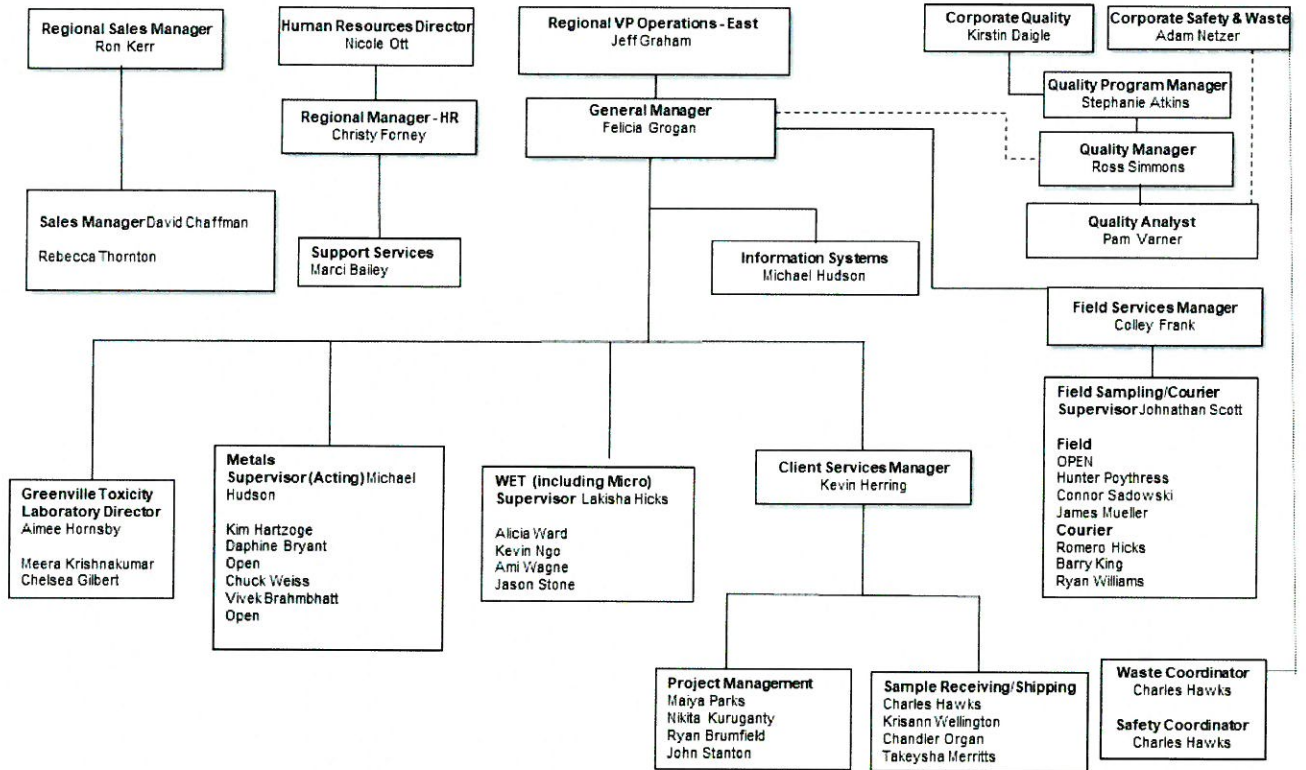


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7.4.9 PAS-Atlanta-Greenville

**Pace Atlanta-Greenville Organizational Chart**



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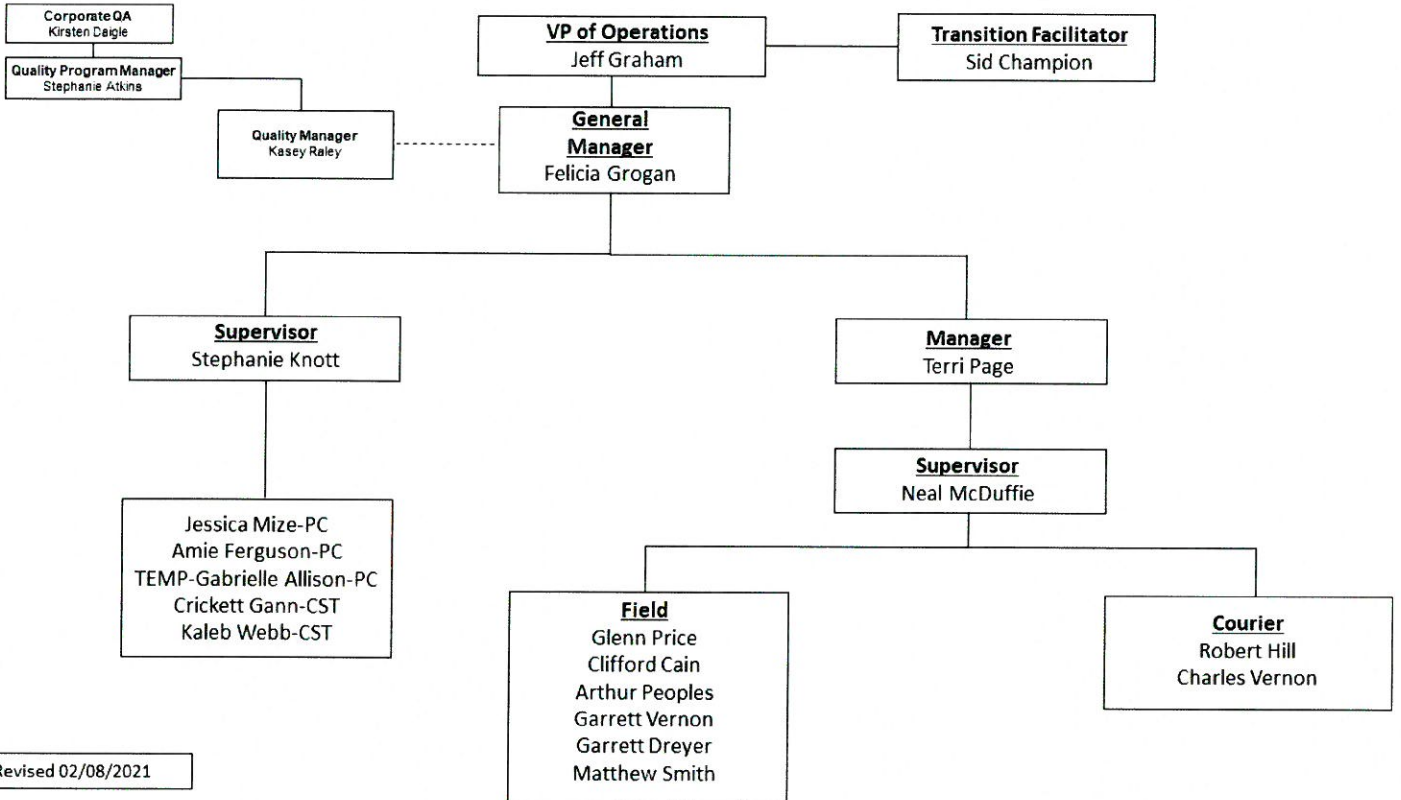


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7.4.10 PAS-Kernersville

**Kernersville**



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## 7.5 Appendix E: Equipment Listing

The equipment listed represents equipment were held by each location on the effective date of this manual. This information is subject to change without notice. External parties should contact the location for the most current information.

### 7.5.1 PAS-Asheville

#### Equipment List: PAS-Asheville

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Top Loader Balance	Sartorius	SECURA 1102-1S	36150095	2018	New	TCLP	93BAL5
Top Loader Balance	Sartorius	SECURA 1102-1S	36150096	2018	New	Metals Prep	93BAL6
Analytical Balance	Sartorius	SECURA 324-1S	360001910	2018	New	Wet Chemistry	93BAL7
Analytical Balance	Sartorius	SECURA 324-1S	36001913	2018	New	Waste Chemistry	93BAL8
Hg Analyzer	CETAC	M-7600	011502Q76	2015	New	Metals	92HG4
LL Hg Analyzer	Teledyne	QuickTrace M8000	VS16050009	2016	Unknown	Metals	92HG5
ICP Analyzer	Thermo Elemental	ICAP 6500	ICAP-2010-4901	2015	Unknown	Metals	92ICP3
Turbidity Meter	WTW	Turb 550T	201010008	2013	Unknown	Wet Chemistry	93WET4
Spectrophotometer	HACH	DR 3900	15820133	2015	Unknown	Wet Chemistry	92WETA
Auto Titrator	Metrohm	888 Titrand	1789002162	2012	New	Wet Chemistry	92WETD
Flashpoint Analyzer	Anton Parr	PMA5	60039989	2016	Unknown	Wet Chemistry	92WETE
BOD Robot	Skalar	SP2005	16275	2017	Unknown	Wet Chemistry	92WETF
Muffle Furnace	Thermo Scientific	F47900	NA	2010	Unknown	Waste Chemistry	92WST4
BTU	PARR	6300 Bomb Calorimeter	M9807	2011	Used	Waste Chemistry	92WST6
Sulfur	LECO	S-632	3122	2011	Used	Waste Chemistry	92WST7
TOX	Mitsubishi Chemical Analytech	TOX-300	HOAA0034	2015	New	Waste Chemistry	92WST8
Smartchem Analyzer	Westco	399-W001-01	W0601081	2008	Unknown	Wet Chemistry	92WTA1
TOC Analyzer	Shimadzu	TOC-Vcnp	1151404535060 CS	2009	Unknown	Wet Chemistry	92WTA6
Lachat Analyzer II	Lachat	QuickChem 8500	10080001233	2010	Unknown	Wet Chemistry	92WTA8
Lachat Analyzer III	Lachat	QuickChem 8500	90300001082	2015	Unknown	Wet Chemistry	92WTAA
IC Analyzer	Metrohm	930	1930100004114	2016	Unknown	Wet Chemistry	92WTAC
Lachat	Lachat	QuickChem 8500 Series 2	161000001983	2016	Unknown	Wet Chemistry	92WTAD
Top Loader Balance	Sartorius	SECURA 1102-1S	36150094	2018	Unknown	Wet Chemistry	93BAL4
BTU	PARR	6400 Calorimeter	6400-1702-72642	2017	Unknown	Wet Chemistry	93WST1
Muffle Furnace	Thermo Fisher	F6010	1126104001180710	2018	Unknown	Wet Chemistry	93WST5
TOC	Shimadzu	TOC-VCSH	H54325732413	2019	Unknown	Wet Chemistry	93WTAA
IC Analyzer	Metrohm	930	19300009120	2017	Unknown	Wet Chemistry	93WTA1



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
IC Analyzer	Metrohm	881	18810000116126	2017	Used	Wet Chemistry	93WTA2
LL Hex Chrom Analyzer	Metrohm	930	1930200027132	2017	Unknown	Wet Chemistry	93WTA3
Sulfur	Leco Corp	626-300-800	17171	2017	Unknown	Wet Chemistry	93WTA4
Analytical Balance	Sartorius	CP124 S	19550801	2019	Used	QA	93BAL9
Analytical Balance	Sartorius	SECURA 124-1S	35150124	2017	Unknown	Wet Chemistry	93BAL3
Conductivity Meter	Thermo Scientific/Orion	Orion 3 Star Benchtop Cond Meter	B29683	2011	New	Wet Chemistry	93WET1
DO Meter	YSI	5100	98E0889	Unknown	Unknown	Wet Chemistry	92WET5
Metals Hotblock	SCP Science	DigiPrep MS 108 Position	MSB1015060047	2015	Used	Metals	93HB10
Metals Hotblock	Environmental Express	SC 151	3994CEC1869	2018	Used	TCLP	93HB11
Metals Hotblock	Environmental Express	SC 396	4507CEC2126	2017	Unknown	Metals	93HB12
Metals Hotblock	Environmental Express	SC Custom 96 Position	6815CECW3105	2011	Unknown	Metals	93HB5
Metals Hotblock	Environmental Express	SC Custom 96 Position	8940CECW3899	2014	Unknown	Metals	93HB7
Metals Hotblock	SCP Science	DigiPrep MS 48 Position	MSX0510120717	2015	Unknown	Metals	93HB8
Metals Hotblock	Environmental Express	36 Position	NA	Unknown	Unknown	Metals	93HB3
Incubator	VWR	1530	NA	Unknown	Unknown	Micro	93INC1
Incubator	Lab Line	302 Imperial III	0390-0143	2012	Unknown	Micro	93INC2
Incubator	Attest	116	128992	Unknown	Unknown	Micro	93INC3
LL Hex Chrom Analyzer	Metrohm	930	1930200049105	2018	Unknown	Wet Chemistry	93WTA9
pH Meter	Fisher Scientific	Accumet AB150	AB92351556	2019	Unknown	Wet Chemistry	93WETH
Titration	OMNIS	Titration	001000134326	2019	New	Wet Chemistry	93WT10
Turbidity Meter	Thermo Scientific	Orion AQ3010	2896604	2019	New	Metals	93WET1
ICP Analyzer	Agilent Technologies	5110 ICP-OES	MY18010002	Unknown	Unknown	Metals	92ICP5
Oven	Thermo Scientific	Heratherm OGS750	42248199	2018	Unknown	Wet Chemistry	93OVN9
Top Loader Balance	Sartorius	SECURA 1102-1S	0037050197	2018	New	Metals	93BL10/ 93BAL10
Hg Analyzer	Teledyne	M-8000	US18018020	2019	New	Metals	93HG6
Oven	Precision	130	9606-003	2013	Used	Wet Chemistry	93OVN3
Oven	Thermo Fisher	Heratherm OMH750	41729011	2015	New	Wet Chemistry	93OVN6
Oven	Barnstead International	3488M	1820061118035	2016	Used	Wet Chemistry	93OVN7
Oven	Fisher Scientific	750G	NA	2015	Used	Wet Chemistry	93OVN8
pH Meter	Fisher/Orion	Orion Star A211	X37977	2017	Unknown	TCLP	93WET2
Scaler	Idexx	Quanti Tray Plus	QTP1374302995	2017	Unknown	Micro	93Scaler2
Water Bath	Precision	66850	10AY-4	Unknown	Unknown	Micro	93WB1
ICPMS	Agilent	7900 ICPMS	JP15260892	2016	Unknown	Metals	92ICM2



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
ICPMS	Agilent	7900 ICPMS-3	JP16071303	2016	Unknown	Metals	92ICM3
Hg Analyzer	Teledyne	QuickTrace M-7600	US18036001	2018	Unknown	Mercury	93HG2
Hotblock	Environmental Express	C8000	2018MDISW142	2018	Unknown	Wet Chemistry	93HB15
Hotblock	Environmental Express	C8000	2018MDISW145	2018	Unknown	Wet Chemistry	93HB16
Hotblock	Environmental Express	SC154	2018CECW4858	2018	Unknown	Metals	93HB17
TDS Hotblock	Environmental Express	TDS024L-01	2017TDSW01	2018	Unknown	Wet Chemistry	93HB18
Tumbler	Environmental	LE1002	2018-12-786	Unknown	Unknown	TCLP	93TUM4
TOX	Mitsubishi	TOX-300	HOAA0527	2018	Unknown	Wet Chemistry	93WETG
pH Meter	Fisher	AB150	AB92354720	2019	Unknown	TCLP	93WETJ
pH Meter	Fisher	AB150	AB92354774	2019	Unknown	Wet Chemistry	93WETK
COD Controller	SCP Science	NA	KPX1019434287	2020	Unknown	Wet Chemistry	NA
COD Block	SCP Science	DigiPrepMS	MSD101810003	2020	Unknown	Wet Chemistry	Block 8

### 7.5.2 PAS-Huntersville (Charlotte)

#### Equipment List: PAS-Huntersville (Charlotte)

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
GC / ECD	Agilent	6890 / Dual micro ECD	US00043919	2004	Unknown	Semivolatiles	92GCS5
GC / ECD	Agilent	6890N / Dual micro ECD	CN10426006	2008	Unknown	Semivolatiles	92GCS6
GC / ECD	Agilent	7890A / Dual micro ECD	CN11111076	2011	Unknown	Semivolatiles	92GCS8
GC / FID	Agilent	6890 / Dual FID	US00028077	2015	Unknown	Semivolatiles	92GCS9
GC	Agilent	6890N	US10302103	2014	Unknown	Semivolatiles	92GCS10
GC	Agilent	7890B	CN17523065	2018	Used	Semivolatiles	92GCS11
GC / ECD	Agilent	6890N	CN10522046	2016	Unknown	Semivolatiles	92GCS12
GC / FID	Agilent	6890 / Dual FID	CN10820003	2010	Unknown	Semivolatiles	92GCSC
GC / FID	Agilent	7890B / FID	US15063046	2018	Unknown	Semivolatiles	92GCSD
GC	HP	8890	US2004A010	2020	Used	Semivolatiles	92GCSE
GC/ECD	Agilent	8890 / G3540A	US1917A005	2020	Used	Semivolatiles	92GCSEF
GC/ECD	Agilent	6890N/G1530N	CN10610043	2020	Used	Semivolatiles	92GCSEG
GC / FID	Agilent	6890N	CN10420001	2020	Used	Semivolatiles	92GCSEH
GC / MS	Agilent	6890N / MS-5975C	US10628085 / US81819411	2010	Unknown	Semivolatiles	92MSS3
GC / MS	Agilent	7890N / 5975C	CN10251042 / US10263621	2014	Unknown	Semivolatiles	92MSS4
GC / MS	Agilent	7890B / 5977A	CN16303181 / US1628L402	2018	Unknown	Semivolatiles	92MSS5
GC / MS	Agilent	7890B / 5977A	CN17243185 / US1433L413	2018	Unknown	Semivolatiles	92MSS6



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
GC / MS	Agilent	6890N / MS-5973	CN10805009 / US94240030	2014	Unknown	Semivolatiles	92MSS7
GC / MS	Agilent	6850 / MS-5975C	CN10805009 / US92012898	2009	Unknown	Semivolatiles	92MSS8
GC / MS	Agilent	7890B / 5977B	CN18133058 / US1811R028	2020	Used	Semivolatiles	92MSS9
GC / MS	HP	6890 plus/G1530A / MS-5973	US00021133 / US80321386	2020	Used	Semivolatiles	92MSSA
GC / FID	Hewlett-Packard	6890 / Dual FID	US00021801	Unknown	Unknown	Volatiles	92GCV4
GC / MS	Agilent	7890A / MS-5975C	CN10816094 / US80819049	2008	Unknown	Volatiles	92GCV6
GC / MS	Agilent	6890N / MS-5975C	CN10716061 / US83121512	2010	Unknown	Volatiles	92GCV7
GC / MS	Agilent	7890A / MS-5975C	CN10251038 / US10313603	2014	Unknown	Volatiles	92MSV1
GC / MS	Agilent	6890 / MS-5973	US00026359 / US82322063	2006	Unknown	Volatiles	92MSV3
GC / MS	Agilent	6850 / MS-5975C	CN10802003 / US80118209	2008	New	Volatiles	92MSV4
GC / MS	Agilent	6890N / 5973	CN10430013 / US44621070	Unknown	Unknown	Volatiles	92MSV5
GC / MS	Agilent	7890A / MS-5973	US10247095 / US21864294	2012	Unknown	Volatiles	92MSV7
GC / MS	Agilent	7890B / 5977B	CN17443157 / US1803R024	2013	Unknown	Volatiles	92MSV8
GC / MS	Agilent	8890 (G3540A) / G7081B	US1918A006 / US1918R014	2019	Unknown	Volatiles	92MSV9
GC/ FID	Hewlett-Packard	6890 / FID	US00000730	2018	Unknown	Volatiles	92MSVA
GC/PID/FID	Hewlett-Packard	5890E / PID/FID	3336A56045	2007	Unknown	Volatiles	92MSVB
GC / MS	Agilent	8890 / MS-5977B	US1948A020 / US1943R015	2020	New	Volatiles	92MSVC
GC / MS	Agilent	8890 / MS-5977B	US1951A029 / US2003R073	2020	New	Volatiles	92MSVD
GC / MS	Agilent	8890 / MS-5977B	US1951A027 / US2004R017	2020	New	Volatiles	92MSVE
GC / MS	Agilent	6890 / MS-5973	DE00020245 / US80221318	2020	Used	Volatiles	92MSVF
GC / MS	Agilent	6890 (G1530N) / MS-5973B	CN10337019 / US30955893	2020	Used	Volatiles	92MSVG
GC/MS	Agilent	8890 (G3540A) / MS-5977B	US2014A029 / US2040R042	2020	New	Volatiles	92MSVI
Autosampler	EST	Centurion W/S	CENTS482062514	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENTS448053013	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENTS436020513	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENTW303091509	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENTS173072810	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion	CENTW629022818	2018	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion	CENTS203112310	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENTS201111710	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENTW696050819	2019	Unknown	Volatiles	Autosampler



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Autosampler	EST	Centurion W/S	CENTS443012116	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENT210082306	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	LGX-50	LGX114010317	Unknown	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion	CENTW743050420	2020	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion	CENTW744050420	2020	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion	CENTW718120319	2020	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENTS543012618	2020	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion W/S	CENTS258011612	2020	Unknown	Volatiles	Autosampler
Autosampler	EST	Centurion	CENTW765091120	2020	Unknown	Volatiles	Autosampler
Autosampler Tower	Agilent	G4513A	CN20020067	Unknown	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tower	Agilent	G2613A	CN25028798	Unknown	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tower	Agilent	7683/G2613A	CN11920341	2020	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tower	Agilent	G2613A	CN13421746	Unknown	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tower	Agilent	7683/G4513A	CN17350238	2020	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tower	Agilent	G4513A	CN18530013	Unknown	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tower	Agilent	7683/G2613A	US81100451	2020	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tower	HP	7683/G2613A	US83001750 / CN18120018	2020	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tower	HP	7683/G2613A	US81801236	2020	Unknown	Semivolatiles	Autosampler Tower
Autosampler Tray	Agilent	G4514A	CN18110103	2020	Unknown	Semivolatiles	Autosampler Tray
Autosampler Tray	Agilent	7693A / G4514A	CN18490059	2020	Unknown	Semivolatiles	Autosampler Tray
Autosampler Tray	Agilent	G2614A	CN41428538	2020	Unknown	Semivolatiles	Autosampler Tray
Autosampler Tray	Agilent	7683 / G2614A	US11311233	2020	Unknown	Semivolatiles	Autosampler Tray
Autosampler Tray	Agilent	G4514A	US19460168	2020	Unknown	Semivolatiles	Autosampler Tray
Autosampler Tray	Agilent	G2614A	US81500672	2020	Unknown	Semivolatiles	Autosampler Tray
Autosampler Tray	Agilent	G2614A	US84002042	2020	Unknown	Semivolatiles	Autosampler Tray
Autosampler Tray	Agilent	G2614A	US91605052	2020	Unknown	Semivolatiles	Autosampler Tray
Concentrator	EST	Evolution	660032515	2015	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon	EV591062514	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon	EV452121212	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon	EV660032515	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon	EV328111510	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon	EV392010312	Unknown	Unknown	Volatiles	Concentrator



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Concentrator	EST	Encon	EV312072810	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon	EV319080210	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon EV	EV940022818	2018	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon EV	EV397021512	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon EV	EV314080210	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon EV	EVX1075050819	2019	Unknown	Volatiles	Concentrator
Concentrator	Tekmar-Dohrmann	14-3000-000	98188018	Unknown	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon	EVX1136110819	2020	Unknown	Volatiles	Concentrator
Concentrator	EST	Evolution	EVX1185050420	2020	Unknown	Volatiles	Concentrator
Concentrator	EST	Evolution	EV989080918	2020	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon EV	EV695081315	2020	Unknown	Volatiles	Concentrator
Concentrator	EST	Encon EV	EVX1235091120	2020	Unknown	Volatiles	Concentrator
Balance	Sartorius	Quintix124-1S	32550238	2015	Unknown	Micro	92BAL2
Balance	Mettler	PL6001E	B528162097	2015	Unknown	Volatiles	92BAL3
Balance	Mettler	PL6001E	B525065656	2015	Unknown	Extractions	92BAL4
Balance	Ohaus	SP202	7123170886	2014	Unknown	Volatiles	92BAL7
Balance	Sartorius	Secura324-1S	37301755	2019	New	Extractions	92BALA
Balance	Mettler	PL 6001E	B826039269	2018	New	Extractions	92BALB
Balance	Mettler	PL 6001E	B822920010	2018	New	Semivolatiles	92BAL8
Centrifuge	Thermo-Fisher	N/A	42186845	Unknown	Unknown	Extractions	Centrifuge
Deionized Water Tap	N/A	N/A	N/A	Unknown	Unknown	Semivolatiles	DI-2
Deionized Water Tap	N/A	N/A	N/A	Unknown	Unknown	Volatiles	DI-3
Deionized Water Tap	N/A	N/A	N/A	Unknown	New	Volatiles	DI-4
Deionized Water Tap	N/A	N/A	N/A	Unknown	Unknown	Volatiles	DI-5
Deionized Water Tap	N/A	N/A	N/A	Unknown	Unknown	Extractions	DI-6
Deionized Water Tap	N/A	N/A	N/A	Unknown	Unknown	Extractions	DI-7
Deionized Water Tap	N/A	N/A	N/A	Unknown	Unknown	Extractions	DI-8
Deionized Water Tap	MilliQ DI water system	N/A	N/A	Unknown	Unknown	Field	DI-9
Evaporator	Organomation	115	8373	2016	Unknown	Extractions	N-EVAP-1
Evaporator	Horizon	SpeedVap II	00-284	2008	Unknown	Extractions	SPEEDVAP-2
Evaporator	Horizon	SpeedVap IV	18-0127	2018	Unknown	Extractions	SPEEDVAP-5
Evaporator	Biotage	Turbovap II	TV1121N16573	2011	Unknown	Extractions	Turbovap 1
Evaporator	Biotage	Turbovap II	TV1121N16576	2011	Unknown	Extractions	Turbovap 2
Evaporator	Biotage	Turbovap II	TV1126N16618	2011	Unknown	Extractions	Turbovap 3



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Evaporator	Biotage	Turbovap II	TV1121N16577	2011	Unknown	Extractions	Turbovap 4
Evaporator	Zymark	Turbovap II / 46368-A	TV9445N5821	2014	Used	Extractions	TurboVap 6
Evaporator	Horizon	XCELVAP	17-5493	2017	New	Extractions	XcelVap1
Evaporator	Horizon	XCELVAP	18-5573	2020	Unknown	Extractions	XcelVap2
Evaporator	Horizon	SpeedVap IV	18-0131	2020	Used	Extractions	SV6
Evaporator	Horizon	SpeedVap 9000	06-0307	2020	Used	Extractions	SV7
Gas Generator	Zero Air Gas Generator	PEAK Scientific Inst. Ltd	B-11-08-172	2011	Unknown	Volatiles Lab	GEN-1
Hot Plate	Thermo Scientific	Cimerac SP88850100	C3010007111826688	2019	New	Extractions	Hot Plate
Incubator	Fisher	Isotemp 503	361	Unknown	Unknown	Sample Receiving	I-3
Incubator	Precision	Coliform Incubator Bath	9608-007	Unknown	Unknown	Sample Receiving	I-4
Incubator	Revco	T26B-120085-UB		2014	Used	Sample Receiving	I-6
Microwave	CEM	MARS 6 230/60 #910900	MJ9830	2019	New	Extractions	92MW2
Oven	Fisher	Isotemp	7859	Unknown	Unknown	Sample Receiving	O-2
Oven	Baxter	DX-41	2500021	2014	Unknown	Extractions	O-8
% Moisture Oven	Precision Scientific	STM80	Q49216	2015	Unknown	Sample Receiving	O-9
Oven	Thermo Scientific	N/A	41976036	2016	Unknown	Sample Receiving	O-10
Oven	HP	5890A Series II	2921A23623	2020	Used	Extractions	O-11
Oven	HP	5890 Series II	2843A21058	2020	Used	Extractions	O-12
pH Meter	Fisher	Accumet AP61	220713	Unknown	Unknown	Sample Receiving	92PH1
pH Meter	Fisher Scientific	Accumet AP110	2814463	2019	New	Extractions	92PH2
Shaker	Eberbach Corporation	N/A	101747	Unknown	Unknown	Extractions	SHAKER
Shaker	Glas-Col	3D Shaker	11324048	Unknown	Unknown	Extractions	SHAKER-1
Shaker	Glas-Col	3D Shaker	11324049	Unknown	Unknown	Extractions	SHAKER-2
Sonicator	Qsonica	CL-334	2019110233	2020	Unknown	Extractions	92SON1
Sonicator Generator	Qsonica	Q700	111230P-02-20	2020	Unknown	Extractions	Sonicator Generator
SPE unit	Horizon	SPE-DEX 3000XL	14-1947	2014	Unknown	Extractions	OG-3
SPE unit	Horizon	3000XL	14-1948	2014	Unknown	Extractions	OG-4
SPE unit	Horizon	SPE-DEX 3100	15-0115	2020	Unknown	Extractions	OG-5
SPE unit	Horizon	SPE-DEX 3100	20-0291	2020	Unknown	Extractions	OG-6
TCLP Rotator	Bodine Electric Company	42R5BFCI-E3	0685PXLG0005	Unknown	Unknown	Extractions	TCLP-2
Tumbler	Associated Design & Mfg Co.	34RBFCI-5R	0469AQHP0024	2014	Unknown	Extractions	TCLP-6
TCLP Rotator		42R6FCIFX3		Unknown	Unknown	Extractions	TCLP-9
TCLP Tumbler	Environmental Express	LE1002	2018-12-796	2018	New	Extractions	92TUM10



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
TCLP Rotator	Bodine Electric Company	42R5BFCI-E3	0685QTME002 2	2018	Unknown	Extractions	92TUM11
TCLP Rotator	Bodine Electric Company	42R5BFCI-E3	0685RCMA002 2	2018	Unknown	Extractions	92TUM12
TCLP Rotator	Bodine Electric Company	42A5BEPM-FX3	5046UBBA006	2020	Unknown	Extractions	92TUM13
Water Bath	Fisher	Isotemp 120		Unknown	Unknown	Extractions	WB-1
Water Bath	VWR International	89032-204	WE1214006	2020	Unknown	Extractions	WB-4
Deli Cooler	TRUE	GDM-72	1558546	Unknown	Unknown	Sample Receiving	92-D-1
Deli Cooler	Intertek	CST1600	1500WA201706 29012	Unknown	Unknown	Main Lab	92-SL-2
Deli Cooler	Superior	MT45-B	7346697	Unknown	Unknown	Sample Receiving	92-SUB1
Deli Cooler	TRUE	GDM-72	1560639	Unknown	Unknown	Main Lab	92-W-1
Deli Cooler	TRUE	GDM-72	561009	Unknown	Unknown	Main Lab	92-W-2
Deli Cooler	TRUE	GDM-72	1558575	Unknown	Unknown	Main Lab	92-W-3
Deli Cooler	TRUE	GDM-72	10211623	Unknown	Unknown	Main Lab	92-W-4
Deli Cooler	TRUE	GDM-72	5087713	Unknown	Unknown	Main Lab	92-W-5
Deli Cooler	Avantco	GDS-47-HC	PN9131170091	2018	New	Extractions	R-40
Refrigerator	Frigidaire	FFTR2021TW5	4A01609258	2020	Used	Main Lab	92-R-1
Refrigerator	Kenmore	253.7072241	WA51601984	Unknown	Unknown	Sample Receiving	92-SL-1
Refrigerator	Frigidaire	FRU17B2JW17	WA92701079	Unknown	Unknown	Semivolatiles	R-28
Refrigerator	Whirlpool	ETOMSRXTB0 2	VS12683202	Unknown	Unknown	Extractions	R-32
Freezer	Whirlpool	ETOMSRXTB0 2	VS12683202	Unknown	Unknown	Extractions	R-31
Refrigerator	Whirlpool	ET22RKXYW00	SA5127193	2018	Used	Semivolatiles	R-41
Refrigerator	Frigidaire	FFPA4422UU	8A92817565	2019	New	Micro	R-43
Freezer	Whirlpool	WZF34X16DW0 0	U55102641	2016	Unknown	Sample Receiving	92-F-1
VOA Freezer	Idylis	IF50CM23NW	GM961256	2019	New	Volatiles	R-42
Deli Freezer	Central Restaurant Products	69K-058	8137376	2020	New	Sample Receiving	Deli Freezer
Walkin Refrigerator	NA	NA	NA	2016	New	Sample Receiving	92-WI-1
Walkin Refrigerator	NA	NA	NA	Unknown	Unknown	Sample Receiving	92-WI-2
Fume Hood	NA	NA	NA	2004	Unknown	Extractions	Fume Hood A
Fume Hood	NA	NA	NA	2004	Unknown	Extractions	Fume Hood B
Fume Hood	NA	NA	NA	2004	Unknown	Extractions	Fume Hood C
Fume Hood	Kewaunee	NA	NA	Unknown	Unknown	Extractions	Fume Hood E
Fume Hood	NA	NA	NA	2004	Unknown	Extractions	Fume Hood F
Fume Hood	NA	NA	NA	2014	Unknown	Extractions	Fume Hood G





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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Fume Hood	Hemco	NA	NA	Unknown	Unknown	Extractions	Fume Hood I
Fume Hood	NA	NA	NA	Unknown	Unknown	Semivolatiles	Fume Hood D
Fume Hood	NA	NA	NA	Unknown	Unknown	Volatiles	Fume Hood J
NIST Thermometer	Fisher-Scientific	15-077-55	200614857	Unknown	New	Quality	92T063

### 7.5.3 PAS-Eden

#### Equipment List: PAS-Eden

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Quanti Tray Scaler	Idexx	2X	4518	2009	Unknown	Wet Chemistry	95WT02
Meter	YSI	YS15100	00K0582	2009	Unknown	Wet Chemistry	95EDN3
Analyzer	HACH	DR2800	1207494	2009	Unknown	Wet Chemistry	95WT04
Incubator	Attest	116	140769	Unknown	Unknown	Micro	95INC5
Smartchem Analyzer	Westco	399-Q001-01	W0404051	2016	Unknown	Wet Chemistry	95EDNA
Turbidity Meter	LaMotte	2020e	ME 12981	2018	Unknown	Wet Chemistry	95EDNB
UV Meter	Genesys	Genesys 10 UV	2GBC259001	2013	Used	Wet Chemistry	95EDNC
pH Meter	Fisher Scientific	Accumet AB250 pH/ISE	AB92351813	2018	Unknown	Wet Chemistry	95EDNE
pH Meter	Fisher Scientific	Accumet AB250	AB92351815	2018	Unknown	Wet Chemistry	95EDNF
Incubator	NorLake	LR1201WWW/O	11020288	2012	Unknown	Wet Chemistry	95INC6
Incubator	Precision	4	22AJ-11	2009	Unknown	Wet Chemistry	95INC1
Incubator	VWR	1545	901391	2009	Unknown	Wet Chemistry	95INC2
Water Bath	Neslab	GP400	44.5 C	2009	Unknown	Wet Chemistry	95WB02
Autoclave	Market Forge	STM-F	120 208 240	2009	Unknown	Wet Chemistry	95WT01
Incubator	Fisher Scientific	Isotemp	NA	2016	Unknown	Wet Chemistry	95INC7
Incubator	Percival	Moch 1-37L	92J3561.5	2011	Unknown	Wet Chemistry	95INC3
Incubator	Precision Scientific	815	9408-029	2015	Used	Wet Chemistry	95INC4
Sealer	Idexx	2X	1152	2019	Unknown	Wet Chemistry	Eden046
Lachat min dist. Block	Lachat	A2000-835	2000-74	2016	Unknown	Wet Chemistry	95HB01
Waterbath	Thermo Scientific	TSCOL19	300123312	2019	Unknown	Micro	95WB01
Balance	Sartorius	ENTRIS224-1SUS	36402931	2018	Unknown	Wet Chemistry	95BAL3
Waterbath	VWR Scientific	1275PC	200400	Unknown	Unknown	Wet Chemistry	95WB03

### 7.5.4 PAS-Raleigh

#### Equipment List: PAS-Raleigh

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
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Quanti Tray Sealer	Idexx	89-108 94.02	04412-06-0127	2017	Unknown	Micro	91MB01
Analytical Balance	Mettler Toledo AG	xs105DU	1129312116	2019	Unknown	Micro	91BL02
Autoclave	Market Forge	Sterilmatic STME	189107	2012	Unknown	Micro	91AC01
Incubator	Lab Line	Imperial III	0598-0329	2012	Unknown	Micro	91INC2
Combo Meter	Thermo Scientific	Orion 5 Star	014144	Unknown	Unknown	Wet Chemistry	95EDNB
Water Bath	Precision Scientific	51221033	69910439	2013	Unknown	Micro	91WB02
Pouch Sealer	Kapak	Pouch Sealer 9062	LR43737	Unknown	Unknown	Micro	91MB02
pH Meter	Thermo Scientific	Orion 5 Star	014144	2012	Unknown	Micro	91WT01

#### 7.5.5 PAS-Greenwood

##### Equipment List: PAS-Greenwood

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Balance	Sartorius	L2200P	37040166	1988	Unknown	Greenwood	97BAL02

#### 7.5.6 PAS-Greenville

##### Equipment List: PAS-Greenville

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Location	Internal ID
DO Meter	YSI	5000	97A0446	Unknown	New	GVIL Lab	GVL002
DO Meter (backup)	YSI	5100	02G0044	Unknown	New	GVIL Lab	GVL003
DO Probe	YSI	5010	16K100020 (lot#)	Unknown	New	GVIL Lab	GVL004
DO Probe	YSI	5010	Unknown	Unknown	New	GVIL Lab	GVL005
Portable pH Meter	Thermo-Russell	RL060P	304272	Unknown	New	GVIL Lab	GVL007
Conductivity/TDS/°C/°F Meter	Oakton	Con 510	775544	Unknown	New	GVIL Lab	GVL008
Weather Station	Accurite	02007	No SN	Unknown	New	GVIL Lab	GVL009
Portable Light Table	Mayline	8186	No SN	Unknown	New	GVIL Lab	GVL010
Portable Light Table	Mayline	8186	No SN	Unknown	New	GVIL Lab	GVL011
Light Box	Gagne	24366C	No SN	Unknown	New	GVIL Lab	GVL012
Low-Temp Illuminated Incubator	Precision Scientific	818	WB71424132	Unknown	New	GVIL Lab	GVL013
Low-Temp Illuminated Incubator	Precision Scientific	818	WB14714752	Unknown	New	GVIL Lab	GVL014
Refrigerator modified with timed lights and a temp controller	Kenmore	NA	WA14800410	Unknown	New	GVIL Lab	GVL015
Low-Temp Illuminated Incubator	Precision Scientific	816	WB21759918	Unknown	New	GVIL Lab	GVL016
Analytical Balance	Precisa	405M-200A	48762	Unknown	New	GVIL Lab	GVL017
Deionized Water System	Pureflow	PE1-838FU-RVM	No SN	1/29/18	New	GVIL Lab	GVL018
Refrigerator	Sears	25367800791	BA74918522	Unknown	New	GVIL Lab	GVL019
Refrigerator	Sears	25367800791	BA74918742	Unknown	New	GVIL Lab	GVL020
Refrigerator	Whirlpool	W8TXNWFQ01	VS13954681	Unknown	New	GVIL Lab	GVL021
Refrigerator	Frigidaire	FRU17G4JW22	WA23500199	06/2013	New	GVIL Lab	GVL022



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Location	Internal ID
Vacuum Pump	Fisher	SA55NXGTE-4870	K977	Unknown	New	GVIL Lab	GVL023
Incubator	Thermo	FFU2064DW2	WB53240355	05-2017	Used	GVIL Lab	GVL024
Refrigerator	Frigidaire	FRT17L3FW7	BA94912835	05-2017	Used	GVIL Lab	GVL025
Refrigerator	Kenmore	253.65802508	BA63117872	05-2017	Used	GVIL Lab	GVL026
Oven	Fisher Scientific	516G	801N0009	02-1998	New	GVIL Lab	GVL027
Light Meter	Fisher Scientific	06-662-63	19258023	06-2020	New	GVIL Lab	GVL028
pH Meter	Orion	Star A211	X52836	06-2020	Used	GVIL Lab	GVL029

### 7.5.7 PAS-Atlanta

#### Equipment List: PAS-Atlanta

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Location	Internal ID
Lachat Autoanalyzer 8500	Lachat	8500	71000006494	10/19/07	New	WET Lab	26WTA4
Hach Ratio Turbidimeter	Hach	TL2300	2016110C0098	2/14/17	New	WET Lab	26WET1
Orion Conductivity Meter	Orion	Star A212	X38189	5/4/17	New	WET Lab	26WET2
Accumet AB15 pH Meter	Fisher Scientific-Accumet	AB15	Unknown	Unknown	New	WET Lab	26WET3
HACH Spectrophotometer	Hach	DR/2400	41000005412	Unknown	New	WET Lab	26WET8
Hach DO Meter	Hach	HQ40d	Unknown	Unknown	New	WET Lab	26WETA
Genesys 30 Spectrophotometer	Genesys	30	9A1W309109	2/25/19	New	WET Lab	26WETC
Orion Star A211 pH Meter	Orion	Star A211	X48727	2/15/19	New	WET Lab	26WETD
Accumet pH Meter XL150	Fisher Scientific-Accumet	XL 150	XL94107363	9/25/19	New	TCLP Room	26WETE
Genesys 30 Spectrophotometer	Genesys	30	9A1X256109	10/21/19	New	WET Lab	26WETF
Solids Oven	Fisher Isotemp	650G	408N0137	Unknown	Unknown	Oven Room	WET002
Solids Oven	Fisher Isotemp	180L	602041781	2/27/16	Unknown	Oven Room	WET004
Solids Oven	Fisher Isotemp	180L	42014042	08-2016	Unknown	Oven Room	WET005
Solids Oven	Fisher Isotemp	516G	41976331	Unknown	Unknown	Oven Room	WET006
Muffle Furnace	Thermolyne	30400	809N0351	Unknown	Used	Oven Room	WET007
Dessicator 1	Sanpla	Drykeeper	Unknown	Unknown	New	Solids Room	WET008
Dessicator 2	Sanpla	Drykeeper	Unknown	Unknown	New	Solids Room	WET009
Dessicator 3	Sanpla	Drykeeper	Unknown	Unknown	New	Solids Room	WET010
COD Reactor	Hanna	839800	1232071	6/2015	New	WET Lab	WET013
COD Reactor	Hanna	839800	J0055805	5/17/17	New	WET Lab	WET014
COD Reactor	Hach	45600	980400017438	Unknown	New	WET Lab	WET015
BOD Incubator	Thermo-Scientific	Precision	1112305-2493	Unknown	New	WET Lab	WET016
BOD Incubator	VWR	2020	Unknown	6/08/11	New	WET Lab	WET017
BOD Incubator	Thermo-Scientific	Precision	Unknown	Unknown	New	WET Lab	WET018
Waterbath	Fisher Scientific	Isotemp 2BL	605991	Unknown	New	WET Lab	WET023
Dry Incubator	Fisher	Isotemp 11690-650D	402N0035	Unknown	New	Micro Lab	MIC001
Dry Incubator	Fisher	Isotemp 11690-650D	402N0036	Unknown	New	Micro Lab	MIC002
Waterbath	Precision	2862	200035	12/2/10	New	Micro Lab	MIC003
Autoclave	Amsco	Eagle 3000	7212126	Unknown	Used	Micro Lab	MIC004
UV Lamp	Spectroline	365nm EN-160L	1658146	Unknown	New	Micro Lab	MIC005
Biohood	Labconco	Class 2 Delta Series	040520218	01/2010	Used	Micro Lab	MIC007
B&L Microscope	Bausch & Lomb	NA	Unknown	Unknown	Used	Micro Lab	MIC008
Colony Counter	Fisher	Darkfield Quebec 3330	Unknown	Unknown	Used	Micro Lab	MIC009



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Location	Internal ID
Bio Indicator Incubator	Mesa Labs	1410	ET17011363	07-2017	New	Micro Lab	MIC010
Quantitray Sealer	IDEXX	Quantitray Sealer Plus	QTP13192205392	8/22/19	New	Micro Lab	MIC011
Waterbath	Thermo-Scientific	Precision	CIR89	01/2021	New	Micro lab	MIC012
Poly Strapping Machine	Uline	H0959	1610237046	05-2017	New	Shipping	SRS001
Cold Vapor AA Mercury Analyzer	Teledyne Leeman Labs	M-7600	US16138009	8/31/16	New	Metals Lab	26HG1
ICPMS	NexION	350X	85XN4120403	2/9/15	New	Metals Lab	26ICM1
ICPMS	NexION	350X	885XN7021402	3/29/17	New	Metals Lab	26ICM2
ICP	Thermo	7400 DUO	IC74DUO332	11/18/19	New	Metals Lab	26ICP2
Centrifuge	IEC Centra	CL2	Unknown	Unknown	Unknown	Metals Lab	MET001
Ultrasonic Cleaner	Fisher	FS20	RSA070523069	Unknown	Unknown	Metals Lab	MET002
New Waterbath	Thermo Scientific	Precision TS GP20	300157151	10/4/17	New	SVO Prep	SVO006
TCLP Pressure Filtration Apparatus	Millipore	YT30142HW	Unknown	Unknown	New	SVO Prep	SVO012
TCLP Pressure Filtration Apparatus	Millipore	YT30142HW	CP4KA0526	9/13/14	New	SVO Prep	SVO013
TCLP Rotator	Associated Design & Manf. Co.	3740-24-BRE-TM	Unknown	Unknown	New	SVO Prep	SVO014
Muffle Furnace	Carbolite	NA	21-100660	2017	Used	SVO Prep	SVO020
Ultrasonic Cleaner	Fisher Scientific	FS9	95101-243416	Unknown	New	VOA Prep Lab	VOA019
Toploader Balance	A&D	FX3000i	15633355	7/27/17	New	SVO Prep	26BAL1
Toploader Balance	A&D	FX3000i	15633361	7/27/17	New	TCLP Room	26BAL3
Analytical Balance	A&D	HR200	12338097	7/27/17	New	Solids Room	26BAL4
Toploader Balance	A&D	FX3000i	15633381	7/27/17	New	Micro	26BAL5
Toploader Balance	A&D	FX3000i	15633353	7/27/17	New	Metals Prep Lab	26BAL7
Analytical Balance	Precisa	205A	25905	Unknown	Unknown	WET Lab	26BAL9

### 7.5.8 PAS-CAR Field

#### Equipment List: PAS-Carolinas Field

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	14M1011742	Unknown	New	Field-HVL	1742
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	14M101744	2015	New	Field-HVL	1744
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	14C102244	2015	New	Field-HVL	2244
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	15B102266	2015	New	Field-HVL	2266
Turbidity Meter	HF Scientific	Micro TPI	201502372	2015	New	Field-HVL	2372
Turbidity Meter	HF Scientific	Micro TPI	201502373	Unknown	New	Field-HVL	2373
Turbidity Meter	HF Scientific	Micro TPI	201502374	2015	New	Field-EDN	2374
Turbidity Meter	HF Scientific	Micro TPI	201502375	Unknown	New	Field-HVL	2375
Turbidity Meter	HF Scientific	Micro TPI	201504165	2015	New	Field-RAL	4165
Turbidity Meter	HF Scientific	Micro TPI	201506503	2015	New	Field-HVL	6503
Turbidity Meter	HF Scientific	Micro TPI	201506505	Unknown	New	Field-HVL	6505
Turbidity Meter	HF Scientific	Micro TPI	201409239	2015	New	Field-HVL	9239



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16F100202	Unknown	New	Field-HVL	0202
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16F100203	Unknown	New	Field-HVL	0203
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16F100204	Unknown	New	Field-HVL	0204
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16F100206	Unknown	New	Field-HVL	0206
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16F100207	2016	New	Field-HVL	0207
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16F1000210	2016	New	Field-HVL	0210
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	15F100211	Unknown	New	Field-AVL	0211
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	15C100262	Unknown	New	Field-HVL	0262
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	15G100566	2015	New	Field-HVL	0566
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	15G100568	2015	New	Field-HVL	0568
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	15G100569	Unknown	New	Field-HVL	0569
pH, Temp Meter	Accumet	AP61	220713	Unknown	New	Field-HVL	0713
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	14K100951	2015	New	Field-GWD	0951
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	15L101069	2016	New	Field-HVL	1067
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	15L101069	2016	New	Field-HVL	1069
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	14M101743	Unknown	New	Field-HVL	1743
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16J101764	Unknown	New	Field-HVL	1764
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	16J101765	Unknown	New	Field-HVL	1765
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	16J101768	Unknown	New	Field-GWD	1768
Multi-function Meter	YSI	Pro Plus	14F101975	2014	New	Field-AVL	1975
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	16K102148	Unknown	New	Field-HVL	2148
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	158102256	Unknown	New	Field-HVL	2256
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	16B103415	Unknown	New	Field-RAL	3415
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	16B103470	Unknown	New	Field-HVL	3470
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16B103471	2016	New	Field-HVL	3471
pH, Temp, DO, Sp Cond, Redox Meter	YSI	Pro Plus	16B103472	2016	New	Field-HVL	3472
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	15C103516	Unknown	New	Field-HVL	3516
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	16D104484	Unknown	New	Field-HVL	4484
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	16D104485	Unknown	New	Field-GWD	4485
pH, Temp, DO, Sp Cond, ORP Meter	YSI	Pro Plus	16D104486	Unknown	New	Field-AVL	4486
Turbidity Meter	HI Scientific	Micro TPW	201605537	Unknown	New	Field-HVL	5537



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Turbidity Meter	HF Scientific	Micro TPW	201605538	Unknown	New	Field-HVL	5538
Turbidity Meter	HF Scientific	Micro TPW	201605541	Unknown	New	Field-HVL	5541
Turbidity Meter	HF Scientific	Micro TPW	201606083	Unknown	New	Field-HVL	6083
Turbidity Meter	HF Scientific	Micro TPW	201606084	Unknown	New	Field-HVL	6084
Turbidity Meter	HF Scientific	Micro TPW	201606085	Unknown	New	Field-HVL	6085
Turbidity Meter	HF Scientific	Micro TPW	201606086	Unknown	New	Field-RAL	6086
Turbidity Meter	HF Scientific	Micro TPW	201606087	Unknown	New	Field-HVL	6087
Chlorine Meter	Hach	Pocket Colorimeter	960600096027	Unknown	New	Field-AVL	6027
Sp Cond Meter	YSI	YSI 30	03K1054	Unknown	New	Field-AVL	1054
pH, Temp, ORP, DO Meter	YSI	YSI Pro Plus	14F101975	Unknown	New	Field-AVL	1975
Chlorine Meter	Hach	1900	153310001007	2016	New	Field-AVL	1007
pH Meter	HACH	NA	2046907	Unknown	New	Field-EDN	6907
pH Meter	YSI	2266	15B102266	Unknown	New	Field-EDN	2266
Chlorine Meter	HACH	NA	1111OE186825	Unknown	New	Field-EDN	6825
TRC Meter	HACH	Pocket Colorimeter II	40100009468	Unknown	New	Field-GWD	9468
Sp Cond Meter	HACH	SensIONS	09080C852014	2009	New	Field-GWD	2014
pH Meter	YSI	PRO PLUS	15F103906	2015	New	Field-GWD	YSI-3906
Turbidity Meter	HF Scientific	20000	201701276	2017	New	Field-GWD	HFS-1276
Multi- function Meter	YSI	YSI Pro Plus	14C102244	2017	New	Field-GWD	YSI-2244
Dissolved Oxygen Meter	YSI	YSI 20	146101037	2015	New	Field-GWD	YSI-9719
Turbidity Meter	HF Scientific	TPW	201702246	2018	New	Field-GWD	HFS-2246
Turbidity Meter	HF Scientific	TPW	201908195	2019	New	Field-GWD	HFS-8195
High Range Chlorine Meter	Hach	Pocket Colorimeter II	58700-00	Unknown	New	Field-RAL	A7250
ph/Temp Meter	Accumet	Thermometer	2027212	Unknown	New	Field-RAL	7212
Low Level Chlorine Meter	Hach	Low Level Chlorine	1179255	Unknown	New	Field-RAL	DR2800
pH, Temp, DO, SpCond, Redox Meter	YSI	YSI Pro Plus	18G100339	Unknown	New	Field-HVL	0339
Turbidity Meter	HF Scientific	TPI	201605135	Unknown	New	Field-HVL	5135
Turbidity Meter	HF Scientific	TPW	201610355	Unknown	New	Field-HVL	0355
Turbidity Meter	HF Scientific	TPI	201602562	Unknown	New	Field-HVL	2562
Turbidity Meter	HF Scientific	TPW	201609023	Unknown	New	Field-HVL	9023
Turbidity Meter	HF Scientific	TPI	201605131	Unknown	New	Field-HVL	5131
Turbidity Meter	HF Scientific	TPW	201707040	Unknown	New	Field-HVL	7040
Turbidity Meter	HF Scientific	TPI	20165134	Unknown	New	Field-HVL	5134
Turbidity Meter	HF Scientific	TPW	201811564	Unknown	New	Field-HVL	5764
Turbidity Meter	HF Scientific	TPW	201906097	Unknown	New	Field-HVL	6097



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Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
Turbidity Meter	HF Scientific	TPW	201702244	Unknown	New	Field-AVL	2244
Turbidity Meter	HF Scientific	TPW	201702245	Unknown	New	Field-AVL	2245
Turbidity Meter	HF Scientific	TPW	201811565	Unknown	New	Field-HVL	1565
Turbidity Meter	HF Scientific	TPW	201811566	Unknown	New	Field-HVL	1566
Turbidity Meter	HF Scientific	TPW	201906095	Unknown	New	Field-HVL	6095
DO, Temp Meter	YSI	YSI Pro 20	JC01272	Unknown	New	Field-AVL	1272

**7.5.9 PAS-Kernersville**

**Equipment List: PAS-Kernersville**

Description	Manufacturer	Model	Serial Number	Service Date	Condition	Department	Internal ID
pH Meter	Oakton	Model 30	2178530	1/4/2021	New	Field-KERN	8530
DO Meter	YSI	i20	20c100349	1/4/2021	New	Field-KERN	0349
Cl <sub>2</sub> Meter	Hach	2ii	16120E317523	1/4/2021	New	Field-KERN	7523
pH Meter	Oakton	Model 150	2819645	1/4/2021	New	Field-KERN	9645
DO Meter	YSI	55	08F100348	1/4/2021	New	Field-KERN	0348
Cl <sub>2</sub> Meter	Hach	2ii	241429	1/4/2021	New	Field-KERN	1429
pH Meter	Oakton	pH11	723955	1/4/2021	New	Field-KERN	3955
DO Meter	YSI	55	07C1371	1/4/2021	New	Field-KERN	1371
Cl <sub>2</sub> Meter	Hach	2ii	17120E346073	1/4/2021	New	Field-KERN	6073
pH Meter	Oakton	pH11	2119475	1/4/2021	New	Field-KERN	9475
DO Meter	YSI	55	07C1346	1/4/2021	New	Field-KERN	1346
Cl <sub>2</sub> Meter	Hach	2ii	1290679	1/4/2021	New	Field-KERN	0679
Cl <sub>2</sub> Meter	Hach	DR2800	06010D044689	1/4/2021	New	Field-KERN	4689
pH Meter	Oakton	pH30	2643422	1/4/2021	New	Field-KERN	3422
Cl <sub>2</sub> Meter	Hach	2ii	19110A003127	1/4/2021	New	Field-KERN	3127
pH Meter	Oakton	pH30	2838793	1/4/2021	New	Field-KERN	8793
Cl <sub>2</sub> Meter	Hach	2ii	17030E323565	1/4/2021	New	Field-KERN	3565
pH Meter	Oakton	pH30	2643396	1/4/2021	New	Field-KERN	3396
Cl <sub>2</sub> Meter	Hach	2ii	15010E264594	1/4/2021	New	Field-KERN	4594
pH Meter	Oakton	pH30	912301	1/4/2021	New	Field-KERN	2301