Georgia Environmental Protection Division
Land Protection Branch
Response and Remediation Program
Response Development Units 1 – 3

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Document Submittal Form

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Name of Document:	June 2018 VRP Progress Report
Date of Document:	June 14, 2018
Site Name:	Former Manchester Tank Site
Site ID Number:	HSI #10765

Document Submittal Checklist. Please certify that the submittal includes the following by checking each box as appropriate. Items 1 – 3 should be checked / included / certified for each submittal:

☒ 1. One paper copy of the document (double-sided is preferred)

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- ☒ laboratory data sheets
- ☐ manifests
- ☐ other: NA

I certify that the information I am submitting is, to the best of my knowledge and belief, true, accurate, and complete.

Signature: 

Name (printed): Philip T. Hendershot, CHMM

Date: 6/14/2018

Organization: CDM Smith

Phone: 502-217-7924

Email: hendershotpt@cdmsmith.com

Receipt Date
(for EPD use only)

9420 Bunsen Parkway, Suite 225
Louisville, Kentucky 40220
tel: 502.339.0988

June 14, 2018

Mr. David Hayes, Unit Coordinator
Response and Remediation Program
Land Protection Branch
Georgia Environmental Protection Division
2 Martin Luther King, Jr. Drive
Suite 1054, East Tower
Atlanta, Georgia 30334

Subject: June 2018 Semi-Annual Voluntary Remediation Program (VRP) Progress Report
Former Manchester Tank Company (HSI No. 10765)
Cedartown, Polk County, Georgia

Dear Mr. Hayes:

This Progress Report documents the activities completed for the Former Manchester Tank Company (Manchester Tank) site in Cedartown, Georgia from February 2018 through May 2018. This Progress Report includes the following:

- Work Performed This Period;
- Work Anticipated for the Next Period;
- Schedule; and
- Professional Certification.

Work Performed This Period

The following activities were performed during the current reporting period:

- The groundwater monitoring plan has been implemented. The 2018 Corrective Action Monitoring Report (CAMR) No. 1 is included in **Attachment A** and includes details of the onsite containment system performance and monitoring results.
- Construction of the onsite groundwater treatment system and startup testing were completed in February of 2018. The onsite groundwater containment system came fully online on March 15th. As of May 29th, a total of 3.3 million gallons of groundwater have been extracted and successfully treated.
- Operation and maintenance (O&M) is ongoing by CDM Smith. As detailed in the CAMR, a disruption in the operation of extraction EXP-2 has been experienced and CDM Smith is working diligently to bring this well back online.

- A project status call was held with the Georgia Environmental Protection Division (EPD), Textron, and CDM Smith on April 18, 2018. Two primary items of interest discussed in the call were offsite access and completion of the Consent Order (CO). Additional details on these discussions are below.
    - Textron reported that Missouri Machine and Plow (MM&P) had recently responded to Textron's ongoing requests to negotiate access to the land tract planned for the offsite groundwater containment system (Ladue Avenue Tract). MM&P submitted a Relinquishment of Property Interest Agreement to Textron that spelled out the terms and conditions for Textron to acquire the Ladue Avenue Tract. Textron has found the agreement to be acceptable. However, MM&P has once again become unresponsive.
    - The current version of the draft CO was identified, and Textron has found the draft CO to be acceptable. However, the final CO will require a schedule for construction and operation of the offsite containment system and developing this schedule is dependent on obtaining access from MM&P. As a result, a schedule cannot be developed at this time.

Work Anticipated for the Next Period

The following activities are planned for the next reporting period (June 2018 through November 2018):

- Corrective action monitoring and onsite groundwater containment system O&M will continue.
- EXP-2 will be returned to service.
- A legal description for the Ladue Avenue Tract does not currently exist and is required to complete MM&P's Relinquishment of Property Interest Agreement. Textron will prepare the legal description and provide it to MM&P. At that point, the future actions necessary to finalize Textron's acquisition of the Ladue Avenue Tract will be in the hands of MM&P.
- If the Relinquishment of Property Interest Agreement is executed in the near future, Textron will work with the City of Cedartown to develop a property deed and acquire the Ladue Avenue Tract. At this point, the offsite groundwater containment system schedule can be finalized along with the EPD CO.

Schedule

An updated corrective action schedule for the onsite containment system is enclosed. The schedule for the offsite groundwater containment system and finalization of the CO remain dependent on obtaining offsite access.

Professional Certification

The professional certification and summary of incurred professional engineer and geologist hours are enclosed for the period from January 20, 2018 through May 25, 2018.

If you have any questions regarding this Progress Report, please do not hesitate to contact me at (502) 217-7924.

Sincerely,

Philip Hendershot, CHMM
Principal Scientist
CDM Smith Inc.

cc: Susan Kibler, P.G., EPD VRP Project Officer
Jamie Schiff, Textron
J. Thomas Duffey, P.G., CDM Smith

Enclosures
- Schedule
- Professional Certification
- Professional Hours

Attachment A: 2018 Corrective Action Monitoring Report No. 1

Schedule

	2018							2019											
O&M and Monitoring Tasks	**June**	**July**	**Aug.**	**Sep.**	**Oct.**	**Nov.**	**Dec.**	**Jan.**	**Feb.**	**Mar.**	**Apr.**	**May**	**June**	**July**	**Aug.**	**Sep.**	**Oct.**	**Nov.**	**Dec.**
Onsite Containment System O&M																			
Routine O&M																			
Monthly Self-Monitoring Reports																			
Discharge Compliance Sampling/Reporting																			
Corrective Action Monitoring																			
Quarterly Water Level Measurement																			
Groundwater Sampling																			
Semiannual EPD Progress Reporting																			

Ongoing Activity

Intermittent Activity

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Corrective Action Project Schedule

Former Manchester Tank Company
Cedartown, GA

Professional Certification

Professional Certification

I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional engineer / professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors / Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

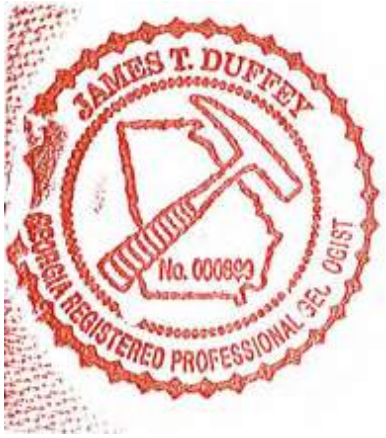
Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____

J. Thomas Duffey, P.G.
Vice President
CDM Smith

Date: June 14, 2018



Professional Hours

Summary of Hours Invoiced for Georgia Licensed Engineers and Geologists

January 20, 2018 through May 25, 2018

Engineer/Geologist	License No.	Month	Hours	Description of Hours
Tom Clark	Engineer PE023872	February	1	Design engineer
		March	1	
Tom Duffey	Geologist PG000899	January	7.5	Senior hydrogeologist and technical lead
		February	4.5	
		March	5.5	
		April	16	
		May	22	
Bernard Pettiford	Engineer PE041008	February	4	Electrical design engineer
John Reichling	Engineer PE017367	February	3	CDM Smith Officer in Charge and person overall responsible for project execution and quality
		March	2	
		April	3	
		May	2	
Jeff Weeber	Engineer PE032278	January	6.5	Design engineer and O&M lead
		February	64.5	
		March	34	
		April	16.25	
		May	30.5	
		Total	223.25	

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Attachment A
2018 Corrective Action Monitoring Report No. 1

2018 Corrective Action Monitoring Report No. 1

January – April 2018
Former Manchester Tank Site (HSI #10765)
Cedartown, Polk County, Georgia

The Former Manchester Tank Site is listed in the Georgia Environmental Protection Division (EPD) Hazardous Site Inventory (HSI) and is enrolled in Georgia's Voluntary Remediation Program (VRP). A Corrective Action Plan (CAP) was approved by EPD on January 16, 2014, that required onsite and offsite hydraulic containment of groundwater containing volatile organic compounds (VOCs) using extraction wells and groundwater treatment. The onsite containment system has been constructed and began operation on March 15, 2018. The offsite system will be constructed after offsite access conditions are resolved. This monitoring report includes data collected in 2018 prior to the treatment system operation and covers the onsite containment system operation and maintenance (O&M) period from March 15 – April 30, 2018.

Monitoring Program Description

The CAP monitoring network consists of 26 monitoring wells, 4 groundwater extraction wells, and the onsite groundwater treatment system. The CAP monitoring program is summarized in **Table A-1** and the monitoring locations are shown on **Figure A-1**. The onsite containment objectives include groundwater extraction in the source area to achieve VOC containment and reduce the VOC mass and downgradient at the site property line to the east to minimize offsite VOC migration.

Water level measurements are recorded from all monitoring network wells. Water levels were not obtained from the wells located on the Missouri Machine & Plow property because an access agreement has not been finalized. Samples for laboratory VOC analyses are collected from nine monitoring wells, four extraction wells, and the treatment system influent and effluent. CDM Smith has identified three zones of hydrogeologic interest to the CAP monitoring at the site, as summarized below.

- Unit A – Unconsolidated residuum ranging in thickness from absent to 25 feet consisting of sandy clay to clayey sand. May contain groundwater under water table conditions where this layer penetrates to the depth of the water table.
- Unit B – Shallow bedrock typically containing groundwater under water table conditions. No definitive demarcation between Units B and C. Unit B is assumed to be limited to less than 20 - 25 feet below land surface (bls).
- Unit C – Intermediate bedrock, like Unit B with fewer fractures. Groundwater in Unit C is confined to semi-confined conditions on the site and to a lesser extent off site. Unit C is assumed to be limited to less than 100 feet bls. Of approximately 48 boreholes that penetrate Unit C and have boring logs that include fracture information, 19 boreholes, or approximately 40%, document water producing fractures in Unit C. Most of these fractures were observed at depths from 40 to 50 feet bls.

The onsite treatment system consists of an air stripper. The treated effluent is discharged to a sanitary sewer under an industrial wastewater discharge permit issued by the City of Cedartown. The onsite treatment system is currently sampled monthly for VOCs plus additional analyses required by the discharge permit.

Groundwater Containment Monitoring

Groundwater level measurements were collected on March 15th prior to operating the onsite containment system and on March 22nd after operating the system for a seven-day period. The well construction and water level data are summarized in **Table A-2**. Groundwater potentiometric surface contour maps were prepared from the water level elevations for the pre- and post- containment system operation data sets for Unit A/B combined and for Unit C. These maps are shown on **Figure A-2** through **Figure A-5**.

Groundwater VOC Monitoring

Groundwater sampling from the monitor wells was conducted in late January prior to operating the groundwater containment system and on March 22nd after operating the system for a seven-day period. The laboratory VOC results are summarized in **Table A-3.** The monitor well purge records are in **Attachment A-1** and the full laboratory reports are in **Attachment A-2**.

Treatment System Monitoring and O&M

Groundwater sampling from the extraction wells was last conducted in late 2016 for the final design. Following the system operation verification and startup, the extraction wells were sampled on March 22nd after operating the system for 7 days and on April 27th after operating the system for a total of 43 days. The extraction well laboratory VOC results are summarized in **Table A-4**.

Sampling from the onsite treatment system was conducted during a four-hour operation test prior to bringing the system online and the VOC results from the test are in **Table A-5**. Following the system operation verification and startup on March 15th, the onsite treatment system was sampled on March 22nd after operating the system for 8 days and on April 27th after operating the system for a total of 43 days. The onsite treatment system laboratory VOC results are summarized in **Table A-6.** The full laboratory reports for the extraction well and treatment system sampling are in Attachment A-2.

Routine O&M for the onsite containment system consists of daily checks using an online connection to system that delivers alarms and allows full remote access to the control panel to view water levels and flow rates and allows the pumping rates to be adjusted. CDM Smith typically visits the site once every two weeks for additional system checks.

One nonroutine O&M event occurred on April 16th. After receiving approximately 1.5 inches of rainfall, the aquifer recharged to near pre-pumping levels relatively quickly and simultaneously a power outage was experienced that evening that resulted in a system shutdown. Upon restarting the system on the following day, EXP-2 would only sustain a 4-gallon per minute (gpm) flow rate, as compared to 20 gpm previously, and was producing high turbidity groundwater. As a result, CDM Smith began the process of redeveloping EXP-2 and bringing the well back online. This process is taking longer than would be desired because of a 240 mg/L total suspended solids discharge limitation under the discharge permit and the associated need to manage a large volume of water. CDM Smith is currently

working with the City of Cedartown for a solution and we expect EXP-2 to be back online in the immediate future.

Conclusions

A shown on the potentiometric surface maps, the ambient groundwater flow is to the northeast. The potentiometric surface in Unit A/B can be irregular to response to recharge events as some areas appear to equilibrate quickly while others equilibrate slowly. This condition is likely associated with variable degrees of connectivity of the shallow units with Unit C bedrock. CDM Smith believes that EXP-2 intersects an enlarged fracture zone in the limestone that extends from MW-54C through EXP-1 and EXP-2 to the northeast toward EXP-3A. The fracture zone has not been encountered beyond EXP-3A, although many exploratory borings were installed. This fracture zone could function more as a groundwater reservoir than a migration conduit. Such enlarged fracture zones typically contain residual soil, if well connected with the residuum. The solids recovered during the redevelopment of EXP-2 thus far appear to be residual soil.

Based on the initial monitoring data, CDM Smith concludes that the onsite containment system can fulfill the hydraulic containment objectives. In addition, VOC mass recovery is occurring, as shown in Table A-6.

Recommendations

Getting EXP-2 back online is very important to the onsite containment system performance and CDM Smith has placed a priority on achieving this effort. Once back online, CDM Smith may revisit the operating parameters for EXP-2 to allow the containment objectives to be fulfilled while minimizing the potential for subsurface erosion.

From the initial monitoring results and preparing this first Corrective Action Monitoring Report, CDM Smith is proposing several changes to the corrective action monitoring program. **Table A-7** summarizes the revised monitoring program and the revised monitoring locations are shown on **Figure A-6**. The changes and rationale are listed below.

- Water levels will be recorded from monitor wells MW-25A and MW-51C to better represent the aquifer response to pumping in the shallower units.
- In the future, MW-51C will be referred to as MW-51B and assumed to be under water table conditions because the screen interval is from 15 – 25 feet bls and the depth to groundwater is approximately 15 feet bls.
- Groundwater sampling from EXP-5, which currently has no VOCs, will be discontinued and replaced with groundwater sampling from EXP-5A. This replacement will provide more meaningful VOC reduction data.

The next quarterly groundwater sampling event will be completed at the end of June 2018.

Figures

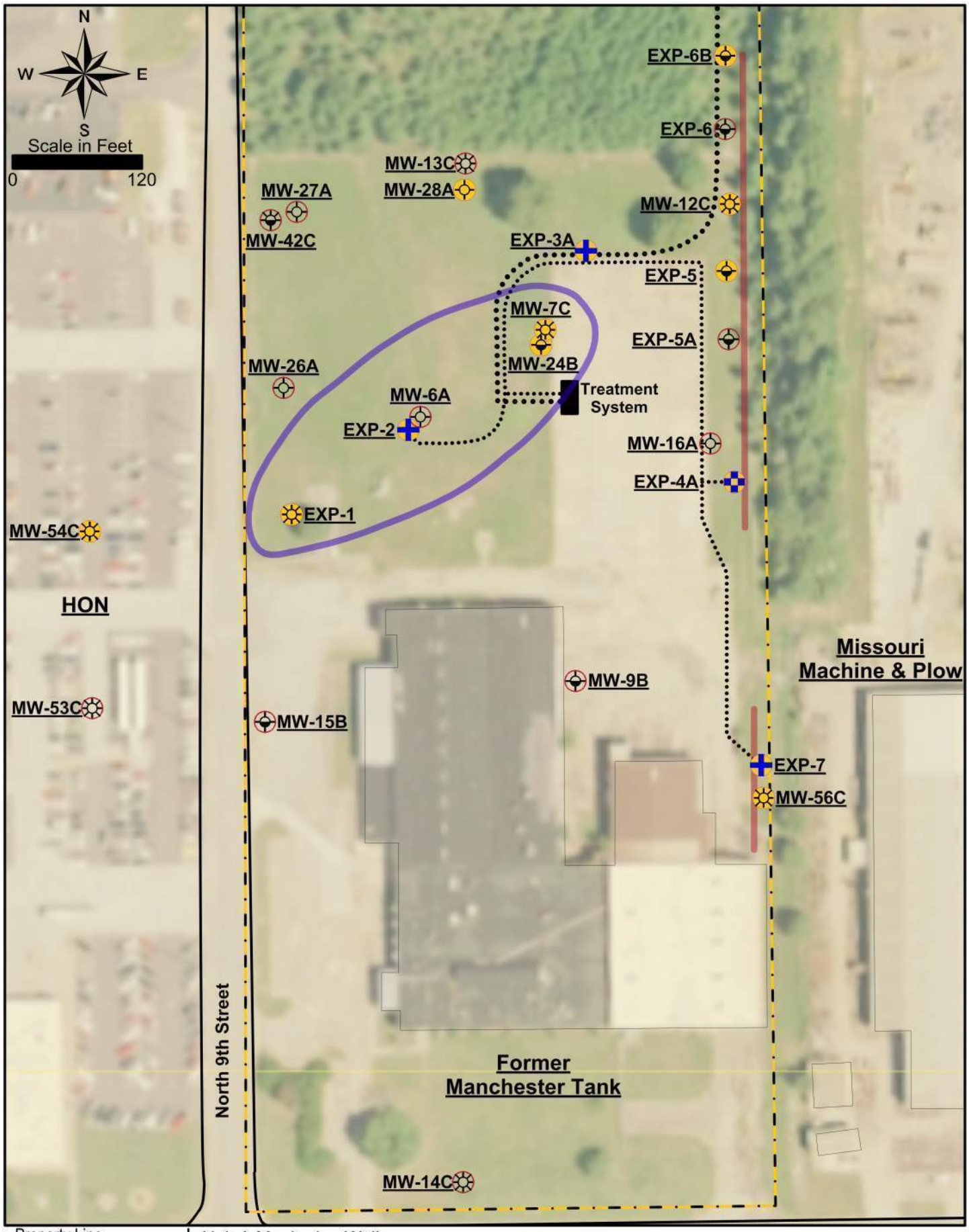
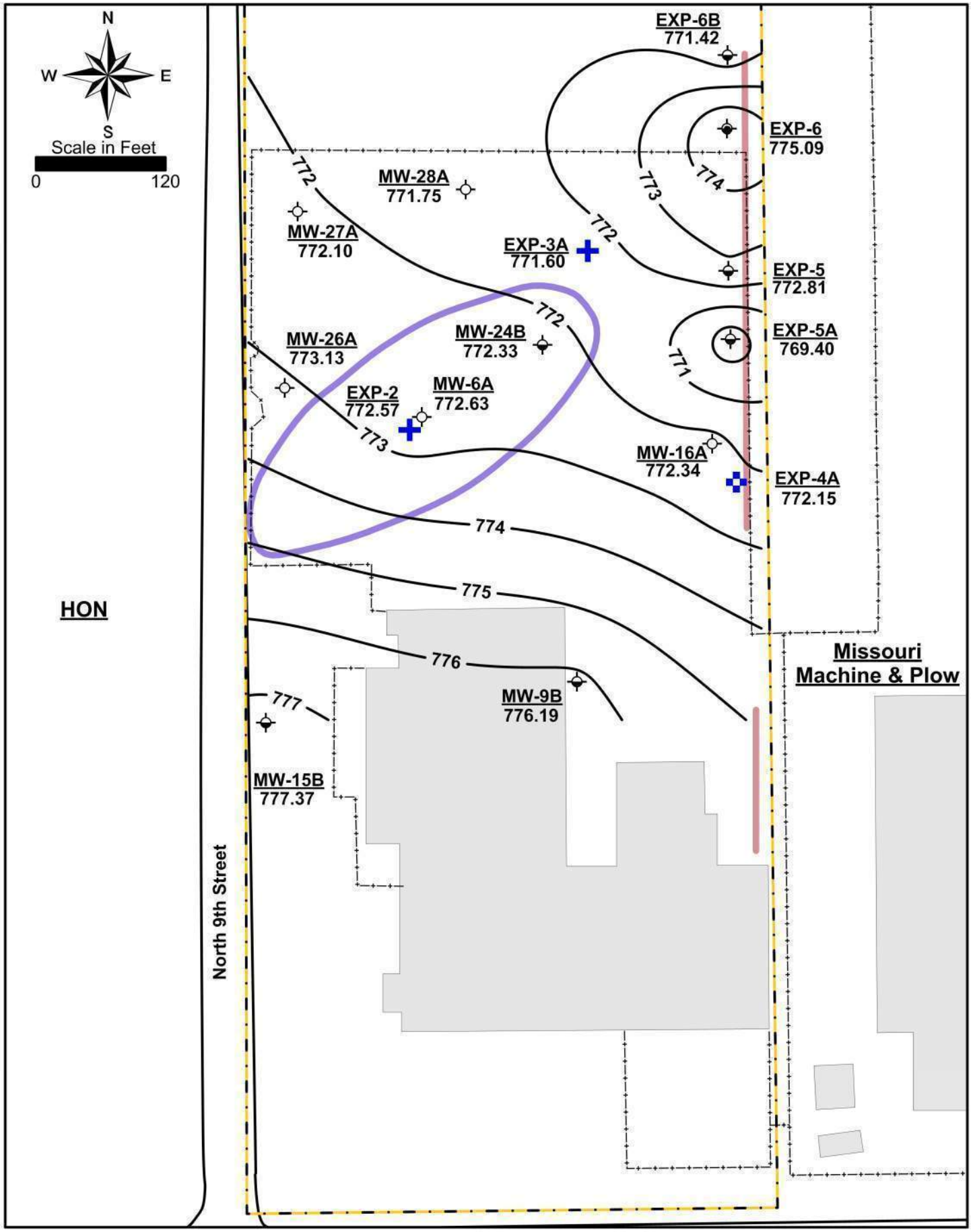


Figure A-1
Corrective Action Monitoring Locations
Former Manchester Tank Site
Cedartown, Georgia



Property Line
Fence

Unit A Monitoring Well
Unit B Monitoring Well
Unit A/B Extraction Well
Unit B/C Extraction Well

Unit A/B Potentiometric Surface
775
Contour Interval = 1 Foot
3/15/2018

Source Containment Area
Downgradient Containment Area

CDM Smith

Figure A-2
Unit A/B 3/15/2018 Potentiometric Surface
Former Manchester Tank Site
Cedartown, Georgia

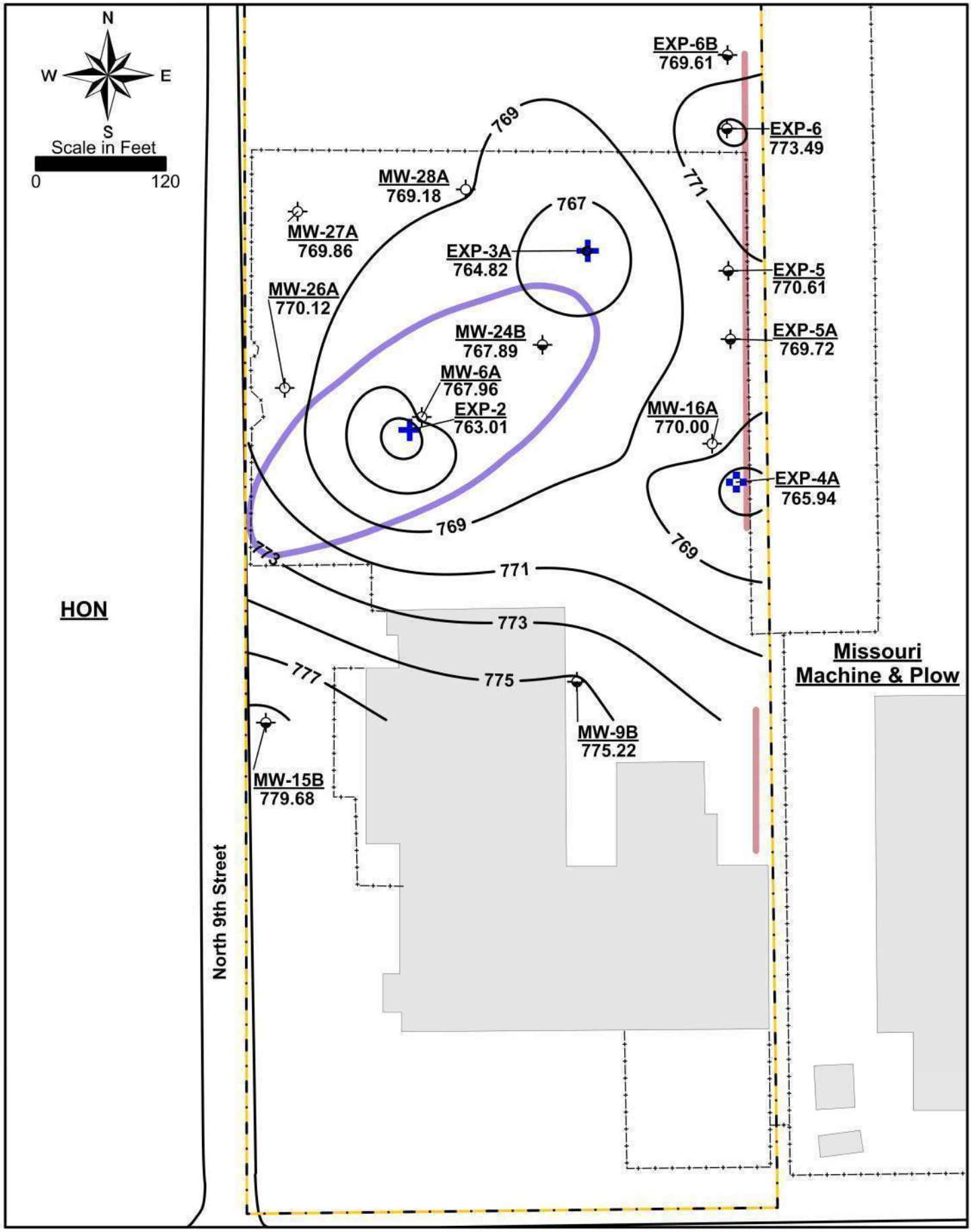
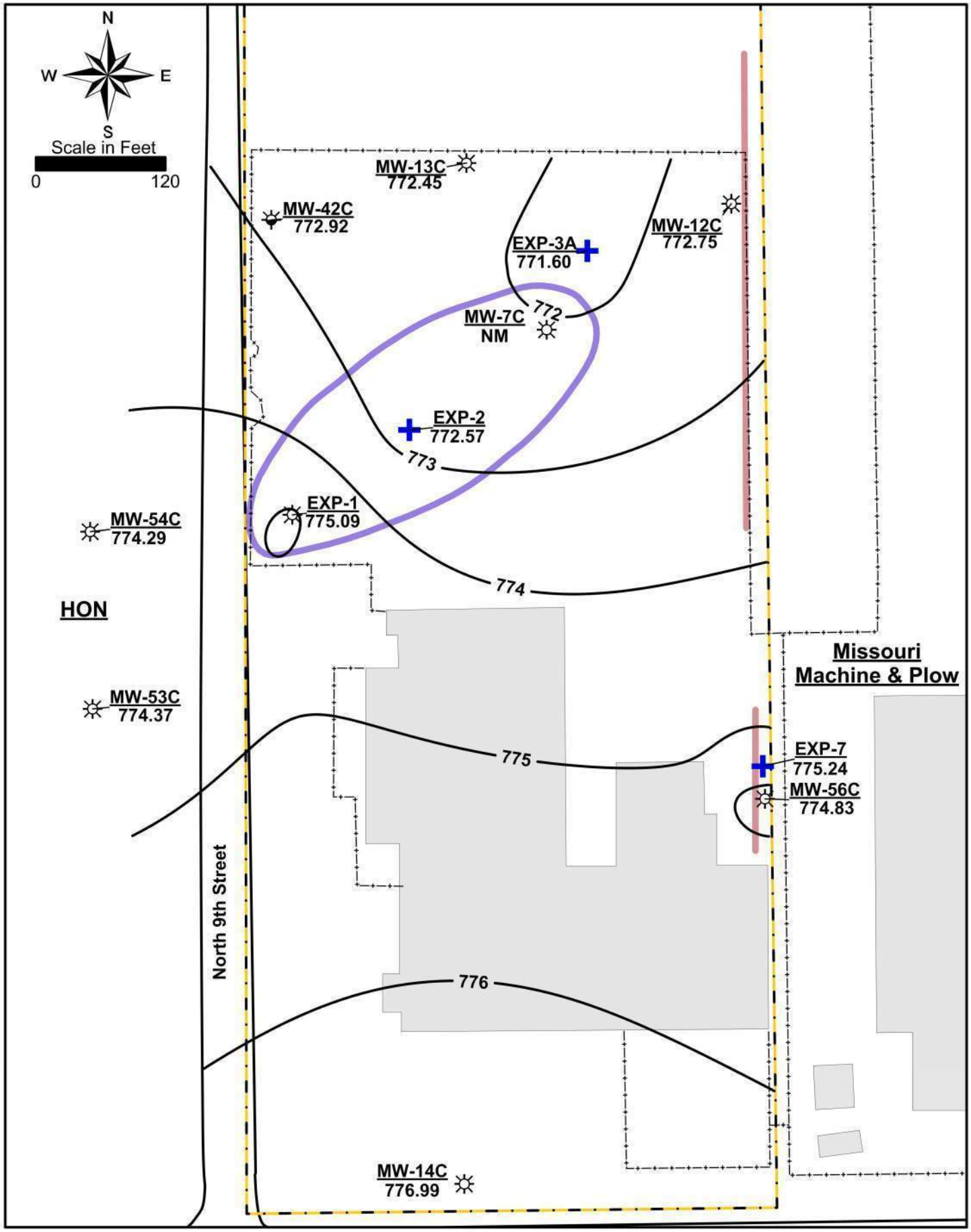


Figure A-3
Unit A/B 3/22/2018
Potentiometric Surface
Former Manchester Tank Site
Cedartown, Georgia



Property Line

Fence

CDM Smith

Unit B/C Monitoring Well

Unit C Monitoring Well

Unit B/C Extraction Well

NM - No Measurement

Unit C Potentiometric Surface

775

Contour Interval = 1 Foot

3/15/2018

Source Containment Area

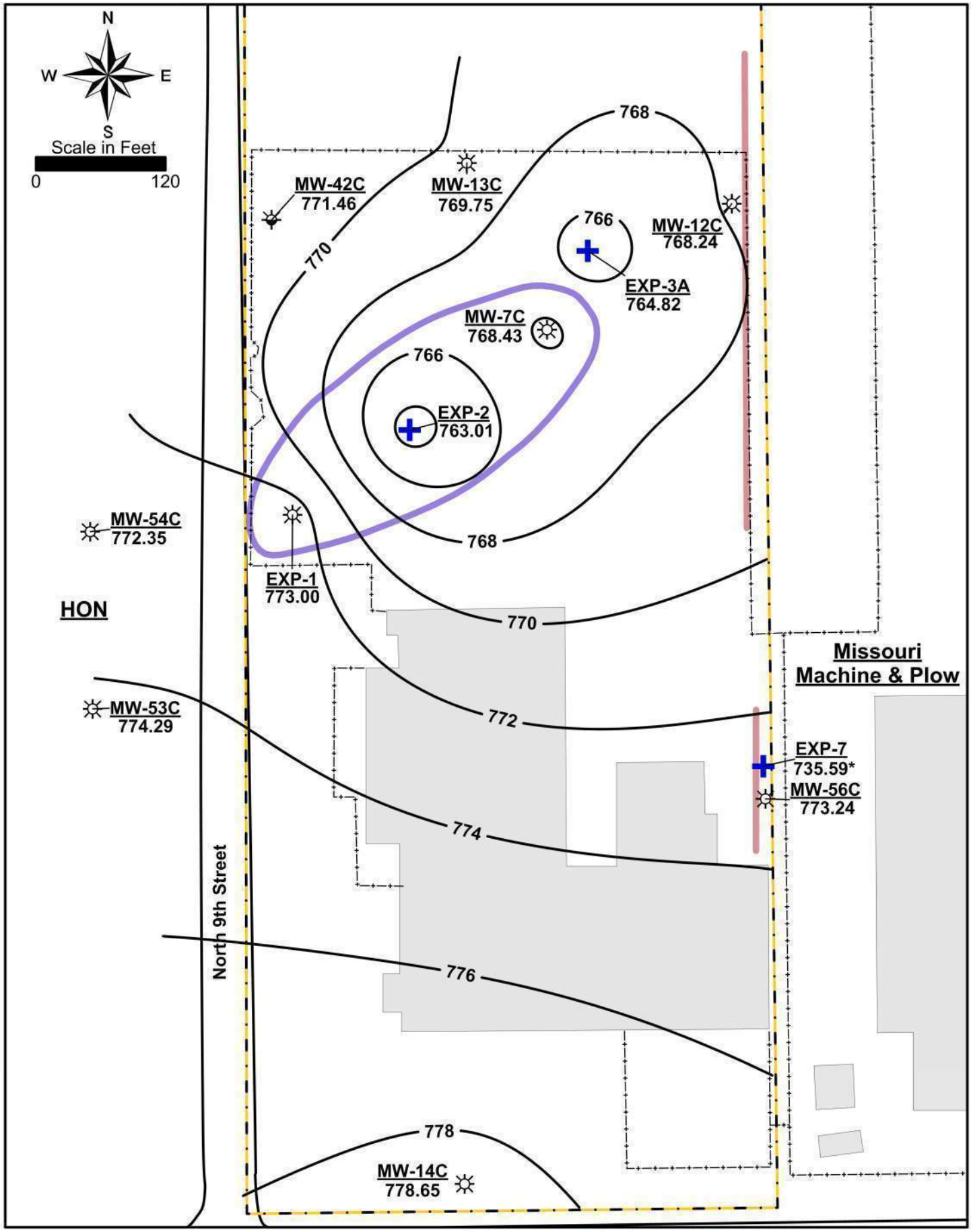
Downgradient Containment Area

Figure A-4

Unit C 3/15/2018 Potentiometric Surface

Former Manchester Tank Site

Cedartown, Georgia



Property Line
Fence

Unit B/C Monitoring Well
Unit C Monitoring Well
Unit B/C Extraction Well

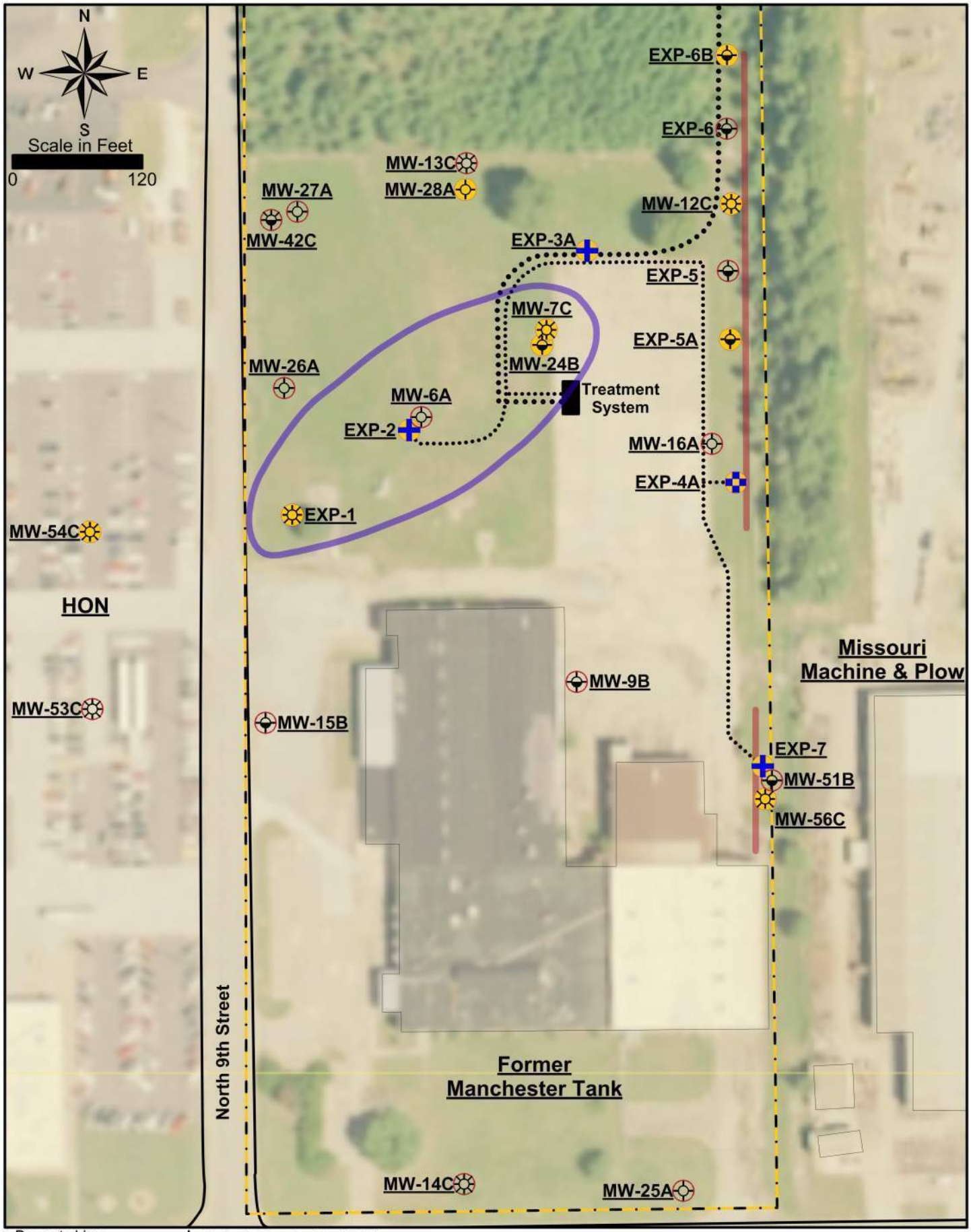
NM - No Measurement

Unit C Potentiometric Surface
776
Contour Interval = 2 Feet
3/22/2018

Source Containment Area
Downgradient Containment Area

CDM Smith

Figure A-5
Unit C 3/22/2018
Potentiometric Surface
Former Manchester Tank Site
Cedartown, Georgia



CDM Smith

Figure A-6
Revised Corrective Action Monitoring Locations
Former Manchester Tank Site
Cedartown, Georgia

Tables

Well Code	Description	Quarterly Water Level	Quarterly VOCs [1]	Code	Description	Quarterly Water Level	Quarterly VOCs [1]
MW-6A	Unit A Monitoring Well	X		MW-7C	Unit C Monitoring Well	X	X
MW-16A	Unit A Monitoring Well	X		MW-12C	Unit C Monitoring Well	X	X
MW-26A	Unit A Monitoring Well	X		MW-13C	Unit C Monitoring Well	X	
MW-27A	Unit A Monitoring Well	X		MW-14C	Unit C Monitoring Well	X	
MW-28A	Unit A Monitoring Well	X	X	MW-42C	Unit C Monitoring Well	X	
MW-30A	Unit A Monitoring Well	X[3]		MW-53C	Unit C Monitoring Well	X	
MW-3B	Unit B Monitoring Well	X[3]		MW-54C	Unit C Monitoring Well	X	X
MW-9B	Unit B Monitoring Well	X		MW-40C	Unit C Monitoring Well	X[3]	
MW-15B	Unit B Monitoring Well	X		MW-44C	Unit C Monitoring Well	X[3]	
MW-24B	Unit B Monitoring Well	X	X	MW-52C	Unit C Monitoring Well	X[3]	
EXP-5	Unit B Monitoring Well	X	X	MW-56C	Unit C Monitoring Well	X	X
EXP-5A	Unit B Monitoring Well	X		EXP-1	Unit C Monitoring Well	X	X
EXP-6	Unit B Monitoring Well	X		EXP-2	Unit B/C Extraction Well	X	X[2]
EXP-6B	Unit B Monitoring Well	X	X	EXP-3A	Unit B/C Extraction Well	X	X[2]
Treatment system influent and effluent samples are collected monthly for VOC and discharge permit parameters analyses.				EXP-4A	Unit B Extraction Well	X	X[2]
				EXP-7	Unit B/C Extraction Well	X	X[2]

VOCs - Volatile organic compounds analyzed by Method 8260B

1 - Monitoring wells are sampled quarterly for one year of operation (4 events) and semiannually after one year of operation.

2 - Extraction wells are sampled monthly for one year of operation and quarterly after one year of operation.

3 - Wells located on the Missouri Machine & Plow property are not accessible because an access agreement has not been finalized.

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Table A-1
Corrective Action Monitoring
Former Manchester Tank Site
Cedartown, Polk County, Georgia

Well Code	Unit	Elevation TOC (ft)	Open Interval (ft)		Water Level (ft) TOC (4/27/15)		Water Level (ft) TOC (1/29/18)		Water Level (ft) TOC (3/15/18)		Water Level (ft) TOC (3/22/18)			
			From	To	Depth	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation	Depth	Elevation
MW-6A	A	776.63	8	20	11.06	765.57	8.14	768.49	4.00	772.63	8.67	767.96		
MW-7C	C	776.67	68	74	--	--	10.57	766.10	--	--	8.24	768.43		
MW-9B	B	778.63	16	29	3.56	775.07	9.24	769.39	2.44	776.19	3.41	775.22		
MW-12C	C	775.93	69	75	2.86	773.07	9.23	766.70	3.18	772.75	7.69	768.24		
MW-13C	C	775.16	69	75	3.80	771.36	8.03	767.13	2.71	772.45	5.41	769.75		
MW-14C	C	783.66	67	75	6.88	776.78	--	--	6.67	776.99	5.01	778.65		
MW-15B	B	783.39	8	25	6.21	777.18	11.22	772.17	6.02	777.37	3.71	779.68		
MW-16A	A	776.92	8	15	--	--	9.08	767.84	4.58	772.34	6.92	770.00		
MW-24B	B	776.87	Unk	19	4.32	772.55	9.21	767.66	4.54	772.33	8.98	767.89		
MW-26A	A	778.32	8	20	6.11	772.21	9.55	768.77	5.19	773.13	8.20	770.12		
MW-27A	A	775.43	8	20	4.20	771.23	7.03	768.40	3.33	772.10	5.57	769.86		
MW-28A	A	775.00	8	20	4.12	770.88	7.12	767.88	3.25	771.75	5.82	769.18		
MW-42C	B/C	776.67	25	160	3.53	773.14	10.22	766.45	3.75	772.92	5.21	771.46		
MW-53C	C	785.76	65	75	10.79	774.97	15.39	770.37	11.39	774.37	11.47	774.29		
MW-54C	C	785.57	44	54	11.66	773.91	14.35	771.22	11.28	774.29	13.22	772.35		
MW-56C	C	779.95	58	68	5.49	774.46	7.13	772.82	5.12	774.83	6.71	773.24		
EXP-1	C	779.88	85	100	8.62	771.26	9.48	770.40	4.79	775.09	6.88	773.00		
EXP-2	B/C	777.29	8	43	5.61	771.68	--	--	--	--	--	--		
		779.92			--	--	11.52	768.40	7.35	772.57	16.91	763.01		
EXP-3A	B/C	776.71	16	100	5.65	771.06	--	--	--	--	--	--		
		779.17			--	--	11.71	767.46	7.57	771.60	14.35	764.82		
EXP-4A	B/C	776.41	9	45	4.84	771.57	--	--	--	--	--	--		
		778.91			--	--	12.83	766.08	6.76	772.15	12.97	765.94		
EXP-5	B/C	775.52	5	45	4.24	771.28	0.91	774.61	2.71	772.81	4.91	770.61		
EXP-5A	B/C	775.75	30	45	3.12	772.63	6.18	769.57	6.35	769.40	6.03	769.72		
EXP-6	B/C	775.66	30	45	1.81	773.85	9.62	766.04	0.57	775.09	2.17	773.49		
EXP-6B	B/C	775.31	30	45	4.73	770.58	9.61	765.70	3.89	771.42	5.70	769.61		
EXP-7	B/C	779.09	19	99	4.55	774.54	--	--	--	--	--	--		
		781.51			--	--	--	--	6.27	775.24	45.92	735.59		

TOC - Top of casing -- No measurement Unit A - Unconsolidated Residuum Unit B - Shallow Bedrock Unit C - Intermediate Bedrock

CDM Smith

Table A-2: Well Construction and Water Levels

Former Manchester Tank Site
Cedartown, Polk County, Georgia

Compound, ug/L		Acetone	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	MEK	PCE	1,1,1-TCA	1,1,2-TCA	TCE	Toluene	Vinyl Chloride	Xylenes
RRS		46,000	4,000	5	520	200	2,000	12,000	98	14,000	5	5.2	5,200	3.3	10,000
MW-7C Unit C 68'-74'	7/18/12	BRL	510	17	1,400	63,000	600	BRL	6.8	200	BRL	70,000	7.7	50	BRL
	1/31/18	BRL	BRL	BRL	600	39,000	360	BRL	BRL	BRL	BRL	16,000	BRL	BRL	BRL
	3/22/18	BRL	BRL	BRL	BRL	85,000	BRL	BRL	BRL	BRL	BRL	72,000	BRL	BRL	BRL
MW-12C Unit C 69'-75'	7/18/12	BRL	BRL	BRL	BRL	80	BRL	BRL	BRL	BRL	BRL	95	BRL	BRL	BRL
	1/29/18	BRL	BRL	BRL	BRL	190	BRL	BRL	BRL	BRL	BRL	170	BRL	BRL	BRL
	3/22/18	BRL	BRL	BRL	BRL	46	BRL	BRL	BRL	BRL	BRL	45	BRL	BRL	BRL
MW-24B Unit B Unk-19'	7/19/12	BRL	520	35	2,300	140,000	2,100	BRL	19	1,200	81	91,000	57	330	33.3
	1/31/18	BRL	630	BRL	3,200	140,000	2,400	BRL	BRL	1,300	BRL	59,000	BRL	1,100	BRL
	3/22/18	BRL	BRL	BRL	BRL	120,000	BRL	BRL	BRL	BRL	BRL	58,000	BRL	BRL	BRL
MW-28A Unit A 8'-20'	7/18/12	BRL	BRL	BRL	17	210	BRL	BRL	BRL	23	BRL	420	BRL	BRL	BRL
	1/30/18	BRL	BRL	BRL	BRL	25	BRL	BRL	BRL	BRL	BRL	76	BRL	BRL	BRL
	Duplicate	BRL	BRL	BRL	BRL	27	BRL	BRL	BRL	BRL	BRL	83	BRL	BRL	BRL
	3/22/18	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	9.6	BRL	BRL	BRL
MW-54C Unit C 44'-54'	3/6/13	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	6.8	BRL	BRL	BRL
	1/29/18	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
	3/22/18	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
MW-56C Unit C 58'-68'	5/8/14	BRL	7.2	BRL	11	590	BRL	BRL	BRL	BRL	BRL	14,000	BRL	27	BRL
	1/30/18	BRL	BRL	BRL	BRL	760	BRL	BRL	BRL	BRL	BRL	7,700	BRL	BRL	BRL
	3/22/18	BRL	BRL	BRL	8.1	450	BRL	BRL	BRL	BRL	BRL	8,900	BRL	BRL	BRL
EXP-1 Unit C 85'-100'	8/14/14	BRL	350	BRL	530	9,200	BRL	BRL	BRL	2,300	BRL	15,000	BRL	160	BRL
	1/30/18	BRL	810	BRL	970	39,000	490	BRL	BRL	2,500	BRL	1,200	BRL	BRL	BRL
	3/22/18	BRL	540	BRL	710	27,000	420	BRL	BRL	2,400	BRL	2,100	BRL	BRL	BRL
EXP-5 Unit B/C 5'-45'	6/9/14*	240	BRL	BRL	14	510	7.5	210	BRL	16	BRL	530	BRL	2.7	BRL
	3/22/18	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
	Duplicate	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
EXP-5A Unit B/C 30'-45'	6/19/14	BRL	BRL	BRL	14	510	7.5	BRL	BRL	16	BRL	530	BRL	2.7	BRL
	8/14/14	BRL	BRL	BRL	14	520	5.6	BRL	BRL	12	BRL	230	BRL	BRL	BRL
	1/30/18	BRL	BRL	BRL	BRL	64	BRL	BRL	BRL	BRL	BRL	26	BRL	BRL	BRL
EXP-6B Unit B/C 30'-45'	8/13/14	BRL	BRL	BRL	6.6	310	BRL	BRL	BRL	7.1	BRL	220	BRL	BRL	BRL
	1/30/18	BRL	BRL	BRL	BRL	72	BRL	BRL	BRL	BRL	BRL	13	BRL	BRL	BRL
	3/22/18	BRL	BRL	BRL	BRL	25	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL

Risk Reduction Standard (RRS) is the higher of the Type 1/3 and Type 4 groundwater RRS. Shaded values exceed the RRS * - Sample collected under pumping conditions.

Unit A - Unconsolidated Residuum Unit B - Shallow Bedrock Unit C - Intermediate Bedrock BRL - Below reporting level

DCA - Dichloroethane DCE - Dichloroethene MEK - Methyl Ethyl Ketone PCE - Tetrachloroethene TCA - Trichloroethane TCE - Trichloroethene

CDM Smith

Table A-3: Monitor Well VOC Data Summary

Former Manchester Tank Site
Cedartown, Polk County, Georgia

Compound, ug/L		Acetone	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2 -DCE	trans-1,2 -DCE	MEK	PCE	1,1,1- TCA	1,1,2- TCA	TCE	Toluene	Vinyl Chloride	Xylenes
RRS		46,000	4,000	5	520	200	2,000	12,000	98	14,000	5	5.2	5,200	3.3	10,000
EXP-2 Unit B/C 8'-43'	6/20/14*	BRL	110	BRL	320 E	12,000 E	190	BRL	26	210 E	12	12,000 E	10	160	11
	6/20/14*	BRL	19	BRL	42	2,700	37	BRL	11	92	BRL	1,100	BRL	19	BRL
	11/28/16	BRL	1,600	BRL	4,100	NA	3,000	BRL	BRL	2,300	BRL	38,000	BRL	1,700	BRL
	3/22/18*	BRL	8.4	BRL	22	1,700	37	BRL	BRL	31	BRL	710	BRL	11	BRL
	4/27/18	690	79	BRL	180	34,000	100	BRL	BRL	110	9.2	20,000	BRL	140	BRL
EXP-3A Unit B/C 16'-100'	6/23/14*	BRL	11	BRL	45	2,000 E	25	BRL	BRL	64	BRL	1,200 E	BRL	BRL	BRL
	6/23/14*	BRL	13	BRL	45	1,800	28	BRL	5.5	72	BRL	990	BRL	BRL	BRL
	11/28/16	BRL	37	BRL	99	NA	79	BRL	BRL	110	BRL	2,400	BRL	BRL	BRL
	3/22/18*	BRL	BRL	BRL	6.2	150	BRL	BRL	BRL	6.5	BRL	130	BRL	BRL	BRL
	4/27/18*	BRL	BRL	BRL	8.5	360	6.2	BRL	BRL	8.6	BRL	250	BRL	BRL	BRL
EXP-4A Unit B/C 9'-45'	6/25/2014*	BRL	11	BRL	120	2,000	36	BRL	BRL	60	BRL	990	BRL	8.3	BRL
	6/25/2014*	BRL	7.7	BRL	71	1,300	22	BRL	BRL	45	BRL	770	BRL	5.2	BRL
	11/28/16	BRL	9.2	BRL	70	NA	19	BRL	BRL	46	BRL	610	BRL	BRL	BRL
	3/22/18*	BRL	BRL	BRL	31	640	9.9	BRL	BRL	20	BRL	330	BRL	BRL	BRL
	4/27/18*	BRL	BRL	5.3	29	760	12	BRL	BRL	BRL	25	420	BRL	BRL	BRL
EXP-7 Unit B/C 19'-99'	8/13/14*	BRL	10	BRL	BRL	79	BRL	BRL	BRL	8.6	BRL	230	BRL	16	BRL
	11/28/16	BRL	18	BRL	BRL	NA	2.1	BRL	BRL	BRL	BRL	7.8	BRL	77	BRL
	3/22/18*	BRL	BRL	BRL	BRL	91	BRL	BRL	BRL	BRL	BRL	820	BRL	6	BRL
	4/27/18*	BRL	6.1	BRL	BRL	120	BRL	BRL	BRL	BRL	BRL	290	BRL	5.6	BRL

Risk Reduction Standard (RRS) is the higher of the Type 1/3 and Type 4 groundwater RRS. Shaded values exceed the RRS * - Sample collected under pumping conditions.

Unit A - Unconsolidated Residuum Unit B - Shallow Bedrock Unit C - Intermediate Bedrock BRL - Below reporting level E - estimated value above the quantitation range

DCA - Dichloroethane DCE - Dichloroethene MEK - Methyl Ethyl Ketone PCE - Tetrachloroethene TCA - Trichloroethane TCE - Trichloroethene NA - Not analyzed

CDM Smith

Table A-4: Extraction Well VOC Data Summary

Former Manchester Tank Site
Cedartown, Polk County, Georgia

	2/9/2018 System Test					
Time	2 Hours		3 Hours		4 Hours	
VOCs	Influent ug/L	Effluent ug/L	Influent ug/L	Effluent ug/L	Influent ug/L	Effluent ug/L
Acetone	BRL	BRL	BRL	BRL	BRL	BRL
1,1-DCA	23	BRL	16	BRL	13	BRL
1,2-DCA	BRL	BRL	BRL	BRL	BRL	BRL
1,1-DCE	64	BRL	46	BRL	36	BRL
cis-1,2-DCE	3,600	26	2,200	18	1,600	12
trans-1,2-DCE	46	BRL	34	BRL	26	BRL
MEK	BRL	BRL	BRL	BRL	BRL	BRL
PCE	BRL	BRL	BRL	BRL	BRL	BRL
1,1,1-TCA	44	BRL	37	BRL	32	BRL
1,1,2-TCA	BRL	BRL	BRL	BRL	BRL	BRL
TCE	1600	BRL	950	BRL	740	BRL
Toluene	BRL	BRL	BRL	BRL	BRL	BRL
Vinyl Chloride	31	BRL	17	BRL	12	BRL
Xylenes	BRL	BRL	BRL	BRL	BRL	BRL

VOC - Volatile organic compound BRL - Below Reporting Level

DCA - Dichloroethane MEK - Methyl Ethyl Ketone TCA - Trichloroethane

DCE - Dichloroethene PCE - Tetrachloroethene TCE - Trichloroethene

Table A-5: Onsite Treatment System Test VOC Data Summary

Former Manchester Tank Site

Cedartown, Polk County, Georgia

CDM Smith

Date	3/22/2018			4/27/2018			5/27/2018			6/27/2018			7/27/2018			8/27/2018		
Total Gallons	568,228			2,382,360			0			0			0			0		
Average Flow (gpm)	49			35			0			0			0			0		
VOCs	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day
Acetone	BRL	BRL	0E+00	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
1,1-DCA	5.3	BRL	3E-03	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
1,2-DCA	BRL	BRL	0E+00	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
1,1-DCE	27	BRL	2E-02	16	BRL	7E-03			0E+00			0E+00			0E+00			0E+00
* cis-1,2-DCE	830	5.6	5E-01	510	BRL	2E-01			0E+00			0E+00			0E+00			0E+00
* trans-1,2-DCE	12	BRL	7E-03	6.8	BRL	3E-03			0E+00			0E+00			0E+00			0E+00
MEK	BRL	BRL	0E+00	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
PCE	BRL	BRL	0E+00	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
1,1,1-TCA	23	BRL	1E-02	13	BRL	5E-03			0E+00			0E+00			0E+00			0E+00
1,1,2-TCA	BRL	BRL	0E+00	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
TCE	490	BRL	3E-01	470	BRL	2E-01			0E+00			0E+00			0E+00			0E+00
Toluene	BRL	BRL	0E+00	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
Vinyl Chloride	6.1	BRL	4E-03	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
Xylenes	BRL	BRL	0E+00	BRL	BRL	0E+00			0E+00			0E+00			0E+00			0E+00
	Total HAPs		0.33	Total HAPs		0.21	Total HAPs		0.0	Total HAPs		0.0	Total HAPs		0.0	Total HAPs		0.0

Date	9/23/2018			10/27/2018			11/27/2018			12/27/2018			1/27/2019			2/27/2019		
Total Gallons	0			0			0			0			0			0		
Average Flow (gpm)	0			0			0			0			0			0		
VOCs	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day	Influent ug/L	Effluent ug/L	Emissions lbs./day
Acetone			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
1,1-DCA			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
1,2-DCA			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
1,1-DCE			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
* cis-1,2-DCE			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
* trans-1,2-DCE			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
MEK			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
PCE			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
1,1,1-TCA			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
1,1,2-TCA			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
TCE			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
Toluene			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
Vinyl Chloride			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
Xylenes			0E+00			0E+00			0E+00			0E+00			0E+00			0E+00
	Total HAPs		0.00	Total HAPs		0.00	Total HAPs		0.0	Total HAPs		0.0	Total HAPs		0.0	Total HAPs		0.0

Total Annual HAPs Emission, lbs.	**0.5**

VOC - Volatile organic compound BRL - Below Reporting Level gpm - Gallons per minute HAP - Hazardous Air Pollutant

DCA - Dichloroethane MEK - Methyl Ethyl Ketone (2-Butanone) TCA - Trichloroethane * - Not a listed HAP

DCE - Dichloroethene PCE - Tetrachloroethene TCE - Trichloroethene

Rule 391-3-1-.03(6)(i) exempts VOC emissions that are below:
4,000 lbs./year & 15 lb./day single HAP; 10,000 lbs./year total HAPs

Table A-6: Treatment System VOC Data Summary

Former Manchester Tank Site
Cedartown, Polk County, Georgia

CDM Smith

Well Code	Description	Quarterly Water Level	Quarterly VOCs [1]	Code	Description	Quarterly Water Level	Quarterly VOCs [1]
MW-6A	Unit A Monitoring Well	X		MW-7C	Unit C Monitoring Well	X	X
MW-16A	Unit A Monitoring Well	X		MW-12C	Unit C Monitoring Well	X	X
MW-25A	Unit A Monitoring Well	X		MW-13C	Unit C Monitoring Well	X	
MW-26A	Unit A Monitoring Well	X		MW-14C	Unit C Monitoring Well	X	
MW-27A	Unit A Monitoring Well	X		MW-42C	Unit C Monitoring Well	X	
MW-28A	Unit A Monitoring Well	X	X	MW-53C	Unit C Monitoring Well	X	
MW-9B	Unit B Monitoring Well	X		MW-54C	Unit C Monitoring Well	X	X
MW-15B	Unit B Monitoring Well	X		MW-56C	Unit C Monitoring Well	X	X
MW-24B	Unit B Monitoring Well	X	X	EXP-1	Unit C Monitoring Well	X	X
MW-51B*	Unit B Monitoring Well	X		EXP-2	Unit B/C Extraction Well	X	X [2]
EXP-5	Unit B Monitoring Well	X		EXP-3A	Unit B/C Extraction Well	X	X [2]
EXP-5A	Unit B Monitoring Well	X	X	EXP-4A	Unit B Extraction Well	X	X [2]
EXP-6	Unit B Monitoring Well	X		EXP-7	Unit B/C Extraction Well	X	X [2]
EXP-6B	Unit B Monitoring Well	X	X				
Treatment system influent and effluent samples are collected monthly for VOC and discharge permit parameters analyses.							

VOCs - Volatile organic compounds analyzed by Method 8260B

1 - Monitoring wells are sampled quarterly for one year of operation (4 events) and semiannually after one year of operation.

2 - Extraction wells are sampled monthly for one year of operation and quarterly after one year of operation.

MW-51B was reclassified as a Unit B well from a Unit C well based on the shallow depth of 25 feet.

Table A-7
Revised Corrective Action Monitoring
Former Manchester Tank Site
Cedartown, Polk County, Georgia

CDM Smith

Attachment A-1

Well Purge Records

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME:	Former Manchester Tank Company	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO:	SAMPLE ID: EXP-1	DATE: 1 - 30 - 18	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3 / 8"	WELL SCREEN INTERVAL DEPTH: 90-100 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 10.05	PURGE PUMP TYPE: ~~PP~~ ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY — PURGE METHOD: Low-Flow

(10.05 feet TOC – 100.62 feet TOC) X 0.163 gallons/foot = 14.76 gallons X 3 = 44.30

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 100	PURGING INITIATED AT: 1335	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 18.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1333		→	→	11.16	8.25	18.33	0.553	167	7.11	-23.0	
1338	1.5			18.13	8.11	18.99	0.490	106	2.84	-85.1	
1343	3			29.36	7.62	18.91	.470	22.1	2.46	-123.2	
1348	4.5			38.63	8.10	19.29	.390	8.49	2.10	-112.5	
1353	6			45.92	8.94	19.40	.369	6.83	2.63	-115.4	
1358	7.5			50.81	8.19	19.46	.360	11.9	1.81	-117.4	
1403	9			59.61	8.91	19.51	.355	~~12.8~~ 11.6	1.28	-122.6	
1408	10.5			68.17	9.04	19.55	.351	21.4	1.31	-125.4	
1413	12			75.12	8.93	19.58	.351	31.3	1.29	-129.8	
1418	13.5			83.86	8.91	19.56	.350	16.9	1.28	-133.2	
1423	15			90.21	8.80	19.61	.348	12.1	1.27	-139.6	
1428	16.5			95.94	8.86	19.60	.346	10.6	1.29	-148.0	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Good /CDM Smith	SAMPLER(S) SIGNATURE(S): Daniel Good	SAMPLING INITIATED AT: 1443	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 100	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y N	FILTER SIZE: ____ mm
		Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) — DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		8260 - VOC's	~~RFPP~~ ESP	

REMARK/NOTES:

WELL PLUG Y / N

WELL VAULT LID Y / N

WELL PAD CONDITION POOR FAIR GOOD

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME: Former Manchester Tank Company	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO:	SAMPLE ID: EXP-5	DATE: 1 - 30 - 18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3 / 8"	WELL SCREEN INTERVAL DEPTH: 44.29 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 8.62	PURGE PUMP TYPE: PP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: Low-Flow

(44.29 feet TOC – 8.62 feet TOC) X 0.163 gallons/foot = 5.79 gallons X 3 = 17.39

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
0935			150	9.83	9.78	14.86	0.168	26.3	2.78	-2.9	
0940	0.2	0.2		11.09	9.81	13.96	0.169	17.7	1.75	-1.3	
0945		0.4		11.90	9.96	14.61	0.174	21.1	1.41	-3.6	
0950		0.6		12.16	10.10	15.38	0.178	16.5	1.30	-5.7	
0955		0.8		14.45	10.27	16.09	0.179	9.44	1.24	-7.9	
1000		1		16.23	10.06	16.16	0.181	7.69	1.22	-9.1	
1005		1.2		16.21	9.99	16.38	0.184	8.43	1.21	-10.0	
1010		1.4		17.67	9.95	16.61	0.185	11.1	1.18	-13.6	
1015		1.6		18.14	9.91	16.83	0.185	12.6	1.15	-14.9	
1020		1.8		18.81	9.93	17.05	0.191	8.80	1.13	-16.4	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Good /CDM Smith	SAMPLER(S) SIGNATURE(S): Daniel Good	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl):	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y N	FILTER SIZE: ____ mm
		Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		8260 - VOC's	RFPP	

REMARK/NOTES:

WELL PLUG Y / N

WELL VAULT LID Y / N

WELL PAD CONDITION POOR FAIR GOOD

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).

2. pH: + 0.1 units; Specific Conductance: + 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: + 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME: Former Manchester Tank Company	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO:	SAMPLE ID: Exp. 6B	DATE: 1 - 30 - 18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3 / 8"	WELL SCREEN INTERVAL DEPTH: ~~8.78~~ ~~43.88~~ (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 3.98	PURGE PUMP TYPE: PP ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: Low-Flow

(8.26 feet TOC − ~~43.88~~ feet TOC) X 0.163 gallons/foot = 5.67 gallons X 3 = 17.0

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1550			500	10.61	8.33	15.43	0.289	47.1	3.85	-82.6	
1555	0.66	0.66		15.83	8.21	16.81	0.294	56.8	3.07	-98.6	
1600		1.33		19.61	8.12	17.23	0.297	39.1	2.67	-43.7	
1605		2		23.91	8.12	17.31	0.299	47.3	2.11	-41.9	
1610		2.66		27.04	8.12	17.38	0.300	20.6	1.59	-44.2	
1615		3.33		31.38	8.12	17.45	0.302	31.1	1.47	-47.8	
1620		4.0		34.61	8.12	17.50	0.303	28.0	1.49	-49.1	
1625		4.66		36.91	8.11	17.58	0.305	16.3	1.51	-51.7	
1630		5.33		~~38.38~~	8.09	17.63	0.306	15.1	1.60	-54.3	
1635		5.66		40.11	~~8.07~~	17.61	0.306	7.49	1.61	-61.1	
			DRY		after	6gal					

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Good /CDM Smith	SAMPLER(S) SIGNATURE(S): Daniel Good	SAMPLING INITIATED AT: 1650	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl):	TUBING Teflon MATERIAL CODE:	FIELD-FILTERED: Y N FILTER SIZE: ____ mm Filtration Equipment Type:	
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)		DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		8260 - VOC's	~~RFPP~~ ESP	

REMARK/NOTES:
WELL PLUG Y / N
WELL VAULT LID Y / N
WELL PAD CONDITION POOR FAIR GOOD

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME: Former Manchester Tank Co.	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO: MW-7C	SAMPLE ID: ~~EXAM 7C~~ MW-7C	DATE: 1-31-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 64.11 - 74.11 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 10.57	PURGE PUMP TYPE: ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☒ Low-Flow ☐ Traditional (3 Well Volume)

(74.11 feet TOC – 10.57 feet TOC) X 0.16 gallons/foot = 10.35 gallons X 3 = 31

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 74.11	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1432		0	700	14.03	7.37	18.62	0.605	126	2.44	-68.6	
1437	1.1	1.1		21.01	7.24	19.01	0.559	44.1	2.27	-68.3	
1442	1.1	2.2		25.63	7.22	19.31	0.545	12.9	2.01	-57.2	
1447	1.1	3.3		31.83	7.41	19.55	0.513	16.8	1.88	-50.0	
1452	1.1	4.4		37.48	7.48	19.68	0.505	28.1	1.59	-49.1	
1457	1.1	5.5		43.16	7.51	19.71	0.498	44.2	1.61	-56.9	
1502	1.1	6.6		50.22	7.55	19.83	0.489	29.4	1.53	-49.8	
1507	1.1	7.7		56.11	7.58	19.99	0.484	16.9	1.44	-50.4	
1512	1.1	8.8		60.09	7.49	20.01	0.481	31.3	1.57	-56.3	
1517	1.1	9.9		65.38	7.43	19.61	0.479	27.4	1.55	-44.1	
1522	1.1	11.0	71.87	71.87	7.50	19.73	0.479	38.7	1.54	-47.8	
			Dry after 11 gallons								

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Gordon / CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1522	SAMPLING ENDED AT: 1549
PUMP OR TUBING DEPTH IN WELL (feet bgl):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N	FILTER SIZE: ____ mm
		Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		VOCs	ESP	

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME: Former Manchester Tank Company	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO:	SAMPLE ID: MW-12C	DATE: 1 - 29 - 18

PURGING DATA

WELL DIAMETER (Inches):	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 75,23 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): ~~9.46~~ 9,23	PURGE PUMP TYPE: ~~ESP~~ PP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: Low-Flow

(75,23 feet TOC – 9,23 feet TOC) X 0.163 gallons/foot = 10,75 gallons X 3 = 32,3

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1533		–	–	~~9.45~~ 9,45	7,24	16,65	0,254	126	5,95	-0,9	
1536	0,2	0,2		10,40	7,14	16,46	0,285	43,6	3,21	-4,7	
1543		0,4		11,19	7,17	16,60	0,292	22,5	2,57	-11,1	
1448		0,6		12,33	7,16	16,42	0,290	15,9	2,41	-11,4	
1553		0,8		13,89	7,19	16,57	0,282	11,11	2,88	-12,7	
1558		1,0		15,66	7,17	16,45	0,269	8,55	3,05	-5,9	
1603		1,2		17,55	7,17	16,42	0,256	6,11	3,05	-5,9	
1606		1,4		19,91	7,18	16,40	0,252	9,87	3,13	-5,8	
1613		1,6		20,96	7,19	16,53	0,254	7,38	3,15	-5,9	
1618		1,8		20,99	7,20	16,51	0,255	6,81	3,17	-6,1	
1623		2,0		21,03	7,21	16,55	~~0,255~~ 0,252	2,84	3,21	-6,0	
1628		2,2		21,08	7,21	16,58	0,256	5,87	3,19	-7,4	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Good /CDM Smith	SAMPLER(S) SIGNATURE(S): Daniel Good	SAMPLING INITIATED AT: 1630	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl):	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y N	FILTER SIZE: ____ mm
		Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		8260 - VOC's	RFPP	

REMARK/NOTES:

WELL PLUG Y / N

WELL VAULT LID Y / N

WELL PAD CONDITION POOR FAIR GOOD

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: + 0.1 units; Specific Conductance: + 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: + 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME: Former Manchester Tank Company	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO:	SAMPLE ID: MW-24B	DATE: 1 - 31 - 18

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 3 / 8"	WELL SCREEN INTERVAL DEPTH: 9.41 - 19.41 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 9.57	PURGE PUMP TYPE: ~~PP~~ ~~ESP~~ PP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: Low-Flow

(19.41 feet TOC – 9.57 feet TOC) X 0.163 gallons/foot = 0.4 gallons X 3 = 1.2

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 14	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 19.41	PURGING INITIATED AT: 922	PURGING ENDED AT: 932	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
0922					7.66	14.25	0.329	48.6	4.91	-7.8	
0927	0.2	0.2			7.13	15.67	0.405	22.1	2.50	-12.1	
0932	0.2	0.4			7.10	15.71	0.413	28.6	~~1.71~~ 1.71	-20.5	
0937	0.2	0.6			7.01	15.80	~~0.410~~ 0.407	31.4	1.66		
		BAY after			0.8	gallons					

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Good /CDM Smith	SAMPLER(S) SIGNATURE(S): Daniel Good	SAMPLING INITIATED AT: 0945	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl):	TUBING Teflon MATERIAL CODE:	FIELD-FILTERED: Y N	FILTER SIZE: ____ mm
		Filtration Equipment Type:	
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		8260 - VOC's	~~RFPP~~ ESP	

REMARK/NOTES:

WELL PLUG Y / N

WELL VAULT LID Y / N

WELL PAD CONDITION POOR FAIR GOOD

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).

2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME:	Former Manchester Tank Company	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO:	SAMPLE ID: MW-28A	DATE:	1 - 30 - 18

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet TOC):	PURGE PUMP TYPE:
2	3 / 8"	20.66 (feet TOC)	7.78	PP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY — PURGE METHOD: Low-Flow

(20.66 feet TOC − 7.94 feet TOC) X 0.163 gallons/foot = 2.06 gallons X 3 = 6.2

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
822			250	8.05	7.33	14.62	0.270	187	6.52	-23.8	
827	0.33	0.33		8.06	7.29	15.73	0.302	57.1	5.41	-16.7	
832		0.67		8.08	7.24	15.96	0.305	26.4	5.23	-12.5	
837		1		8.08	7.19	16.26	.303	~~9.83~~ 10.8	5.01	-10.8	
0842		1.33		8.09	7.12	16.47	.311	9.33	5.03	-5.1	
0847		1.67		8.08	7.09	16.27	.310	6.81	5.13	-0.8	
0852		2		8.08	7.01	16.19	.310		5.06	1.3	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Good /CDM Smith	Daniel Good	0852	

PUMP OR TUBING DEPTH IN WELL (feet bgl):	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y N	FILTER SIZE: ____ mm
		Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) — DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		8260 - VOC's	RFPP	

REMARK/NOTES:

WELL PLUG Y / N

WELL VAULT LID Y / N

WELL PAD CONDITION POOR FAIR GOOD

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: + 0.1 units; Specific Conductance: + 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: + 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME:	Former Manchester Tank Company	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO:	SAMPLE ID: MW-54C	DATE: 1 - 29 - 18	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches): 3 / 8"	WELL SCREEN INTERVAL DEPTH: (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 14.75	PURGE PUMP TYPE: PP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: Low-Flow

(60.0 feet TOC – 14.35 feet TOC) X 0.163 gallons/foot = 7.3 gallons X 3 = 22

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1352				15.33	7.42	20.75	0.396	271	7.13	20.9	
1357	0.2	0.2		16.21	7.64	20.59	0.353	~~155~~ 155	6.63	13.6	
1402		0.4		16.60	7.63	20.42	0.354	147	6.74	15.9	
1407		0.6		16.93	7.67	20.28	0.361	120	6.35	16.0	
1412		0.8		17.21	7.64	20.32	0.362	141	6.21	14.1	
1417		1		17.41	7.60	19.97	0.364	158	5.97	16.4	
1422		1.2		17.60	7.60	20.05	0.367	133	5.83	14.2	
1427		1.4		17.66	7.66	20.21	0.369	131	5.84	8.7	
1432		0.6		17.69	7.65	20.15	0.370	146	5.81	8.4	
1437		0.8		17.69	7.65	20.16	0.371	140	5.81	8.1	
1442		2.0		17.71	7.65	20.19	0.371	154	5.83	8.1	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Good /CDM Smith	Daniel Good	1442	

PUMP OR TUBING DEPTH IN WELL (feet bgl):	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y N FILTER SIZE: ____ mm Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		8260 - VOC's	RFPP	

REMARK/NOTES:
WELL PLUG Y / (N)
WELL VAULT LID (Y) / N
WELL PAD CONDITION (POOR) FAIR GOOD

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

CDM Smith

SITE NAME: Former Manchester Tank Co.	SITE LOCATION: 850 West Ave. Cedartown, GA	
WELL NO:	SAMPLE ID: MW-56C	DATE: 1-30-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 62.80 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): ~~10.51~~ 7.13	PURGE PUMP TYPE: ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☐ Low-Flow ☐ Traditional (3 Well Volume)

62.80 feet TOC – 7.13 feet TOC) x 0.16 gallons/foot = 8.9 gallons X 3 = 26.7

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
11 50			750	10.51	7.26	15.00	0.362	39.9	4.91	135.1	
11 55	1	1		15.61	7.41	15.88	0.341	42.1	2.57	-1.8	
12 00	1	2		21.01	7.39	16.23	0.346	20.6	1.55	-10.6	
12 05	1	3		26.41	7.36	17.81	0.349	9.54	1.08	-21.4	
12 10	1	4		30.98	7.34	18.61	0.353	6.77	1.22	-38.2	
12 15	1	5		36.81	7.32	19.92	0.349	7.81	1.09	-50.6	
12 20	1	6		41.03	7.29	20.22	0.350	5.84	1.00	-61.4	
12 25	1	7		43.07	7.28	20.25	0351	7.09	1.03	-73.4	
12 30	1	8		47.04	7.27	20.24	0.353	10.2	1.07	-78.1	
12 35	1	9		52.59	7.27	20.23	0.353	8.97	1.06	-81.4	
12 40	1	10	~~57.6~~	57.69	7.26	20.29	0.353	10.1	~~1.07~~	-86.9	
		Dry after 10 gallons							~~4.07~~		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Good /CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1220	SAMPLING ENDED AT: ESP
PUMP OR TUBING DEPTH IN WELL (feet bgl):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N FILTER SIZE: ____ mm Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	CG	40	HCl	120		VOCs	ESP	

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:		SAMPLE ID:	EXP-1
DATE:	3-22-K		

PURGING DATA

WELL DIAMETER (inches): 2	TUBING 3/16 DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 90-100 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 6.03	PURGE PUMP TYPE: ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☐ Low-Flow ☒ Traditional (3 Well Volume)

(100 feet TOC – 6.03 feet TOC) X gallons/foot = 15.03 gallons X 3 = 45

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 95	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 100	PURGING INITIATED AT: 1335	PURGING ENDED AT: 1450	TOTAL VOLUME PURGED (gallons): 16.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (~~mL/min~~) 9gpm	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
~~1335~~		~~2.5~~		10.04	8.00	18.31	0.479	~~23.5~~	4.54	1.2	
1340	2.5	2.5	0.5	21.94	7.48	16.99	0.498	19.3	1.09	-26.1	
1345	2.5	~~2.5~~ 5		37.47	7.13	19.40	0.563	14.6	0.06	-45.7	
1350	2	~~7.5~~ 7		48.75		Pump	battery	died			
~~1400~~ 1480	1	8	1	50.03	7.01	19.00	0.618	27.1	1.85	-77.9	
1435	2.5	10.5	1	66.11	7.26	19.90	0.587	16.5	2.52	-88.1	
1440	2	12.5	0.4	81.61	7.40	20.23	0.530	8.11	3.65	-70.1	
1445	2	14.5	1	95.53	7.49	20.26	0.538	10.3	3.68	-69.6	
1450	2	16.5	1	~~95~~ 93.0	7.50	20.28	0.546	7.16	3.71	-64.4	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Groot /CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1450	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 100	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y N	FILTER SIZE: ____ mm
		Filtration Equipment Type:	

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	CG	40	HCl	80		VOCs	ESP	

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:		SAMPLE ID:	EXP-6B
DATE:	3-22-18		

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 34-44 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 5.24	PURGE PUMP TYPE: ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☐ Low-Flow ☒ Traditional (3 Well Volume)

(44 feet TOC – 5.24 feet TOC) X .16 gallons/foot = 6.2 gallons X 3 = 18.6

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 39	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 44	PURGING INITIATED AT:	PURGING ENDED AT: 1030 / TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE ~~(ml/min)~~ gpm	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
0950				9.98	7.51	14.63	0.367	33.7	1.74	28.6	
0955	1.5	1.5	0.3	15.87	7.39	16.57	0.375	28.6	0.57	11.3	
1000	|	3.0	|	21.20	7.42	16.42	0.375	22.9	0.58	4.0	
1005	|	4.5	|	27.41	7.47	16.26	0.375	16.6	0.66	-2.6	
1010	|	6	|	29.98	7.50	16.42	0.377	15.1	0.65	-5.2	
1015	|	7.5	|	30.61	7.60	16.58	0.380	21.6	0.55	-7.3	
1020	|	9	|	40.04	7.65	16.69	0.379	26.3	0.54	-8.2	
1025	|	10.5	|	41.33	7.73	16.93	0.378	19.1	0.52	-9.1	
~~1030~~	~~|~~	~~12~~	~~|~~	~~40.16~~	~~7.67~~	~~17.01~~	~~0.376~~	~~21.4~~	~~0.52~~	~~-9.6~~	
1030	1	~~15~~ 12	0.2	42.16	7.68	17.16	0.373	16.8	0.51	-10.1	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Good /CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1030	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 44	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ mm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	CG	40	HCl	80		VOCs	ESP	

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:		SAMPLE ID: MW-7C	DATE: 3-22-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 64-74 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 7.10	PURGE PUMP TYPE: ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☐ Low-Flow ☐ Traditional (3 Well Volume)

1 74 feet TOC – 7.10 feet TOC) X 0.16 gallons/foot = 10.74 gallons X 3 = 32.11

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 69	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 74	PURGING INITIATED AT: 1510	PURGING ENDED AT: 1550	TOTAL VOLUME PURGED (gallons): 15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
Flowrate											
1510			~~14.06~~	14.06	7.79	16.26	0.743	18.7	4.19	-61.9	
0.6 1515	3	3.0	~~23.89~~	23.89	7.17	19.15	0.689	21.6	4.18	-28.3	
0.6 1520	6	3.0	~~29.69~~	29.69	7.14	19.03	0.685	12.4	4.17	-26.4	
0.5 1525	6.5	2.5	~~37.58~~	37.58	7.14	18.94	0.680	13.8	4.86	-25.4	
0.5 1530	9	2.5	~~45.49~~	45.49	7.15	19.09	0.878	11.3	4.90	-30.3	
0.4 1540	11	2	~~52.13~~	52.13	7.18	19.16	0.676	10.1	4.93	-33.7	
0.4 1545	13	2	~~62.87~~	62.87	7.19	19.23	0.672	8.08	4.97	-31.4	
0.4 1550	15	2	~~71.02~~	71.02	7.22	19.26	0.671	8.93	5.01	-36.1	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: David Boyd COM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1550	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 74	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ mm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	CG	40	HCl	80		VOCs	ESP	

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:		SAMPLE ID: MW-12C	DATE: 3-21-18

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 65-75 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 4.86	PURGE PUMP TYPE: ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☐ Low-Flow ☐ Traditional (3 Well Volume)

(75 feet TOC – 4.86 feet TOC) X .16 gallons/foot = 11.2 gallons X 3 = 33.65

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 70	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 75	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 15

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1215			0.5	1557	7.44	17.21	0.381	38.4	8.61	33.6	
1220	2.5	2.5	1	28.91	7.38	17.33	0.259	26.8	3.66	30.7	
1225	2.5	5	1	33.32	8.26	17.47	0.152	19.9	5.40	23.9	
1230	2	7	0.5	43.15	8.61	16.80	0.151	12.6	5.65	21.3	
1235	2	9	0.5	48.44	8.66	17.93	0.152	15.8	5.62	20.6	
1240	2	11	0.5	53.81	8.75	16.04	0.153	16.3	5.68	19.8	
1245	2	13	0.5	58.62	8.77	18.45	0.157	7.87	5.56	18.7	
1250	2	15	0.5	68.04	6.76	18.59	0.156	9.41	5.53	17.8	
1											
~~1300~~											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Love/CDM Smith	SAMPLER(S) SIGNATURE(S): Dan L	SAMPLING INITIATED AT: 1250	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 75	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y (N)	FILTER SIZE: ____ mm; Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	CG	40	HCl	80		VOCs	BSP	

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:	EXP-5	SAMPLE ID:	EXP-5
DATE:	3/22/18		

PURGING DATA

WELL DIAMETER (inches): 6	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 34-44 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 4.91	PURGE PUMP TYPE: ~~ESP~~ PP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☒ Low-Flow ☐ Traditional (3 Well Volume)

(44 feet TOC – 4.91 feet TOC) X 1.47 gallons/foot = 57.46 gallons X 3 = 172.38

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 39	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 39	PURGING INITIATED AT: 1537	PURGING ENDED AT: 1606	TOTAL VOLUME PURGED (gallons): 3.5	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or (mS/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1537	0.5	0.5		5.91	8.09	17.45	0.120	1.25	0.91	130.2	cloudy
1541	0.5	1.0		6.01	8.03	17.42	0.117	8.31	0.75	121.1	cloudy
1546	0.5	1.5		6.05	7.99	17.45	0.116	49.6	0.52	114.2	cloudy
1551	0.5	2.0		6.07	7.98	17.43	0.116	15.3	0.42	111.9	clear
1556	0.5	2.5		6.08	7.95	17.47	0.116	8.71	0.40	110.3	clear
1601	0.5	3.0		6.08	7.95	17.50	0.116	7.43	0.38	109.2	clear
1606	0.5	3.5		6.09	7.93	17.54	0.115	7.31	0.37	108.6	clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Nicholas Fuller /CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1606	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 39	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y N FILTER SIZE: ____ mm	Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: (Y) N Dup-1 @ 0800	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	4	CG	40ml	HCl	160 ml		VOCs		

REMARK/NOTES:

Hach Field Data: **Final Ferrous Iron,** mg/L **Final Sulfate,** mg/L **Final CO_2,** mg/L **Final MNO_4,** mg/L

Final Total Iron, mg/L **Final Nitrate,** mg/L **Final Alkalinity,** mg/L **Dilution Ratio:**

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:	MW-3/13	SAMPLE ID:	MW-24B
DATE:	3/22/18		

PURGING DATA

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 9-19 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 8.98	PURGE PUMP TYPE: Peristaltic

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: (Low-Flow) X (Traditional (3 Well Volume)

(19 feet TOC – 8.98 feet TOC) X ~~0.163~~ 0.040 gallons/foot = ~~1.63~~ gallons X 3 = ~~4.89~~ 1.20

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 14	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 14	PURGING INITIATED AT: 1123	PURGING ENDED AT: 1138	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1128	0.5	0.5			7.06	17.37	0.753	11.7	4.36	164.5	clear
1133	0.5	1.0			7.15	17.73	0.758	9.81	4.52	122.9	clear
1138	0.5	1.5			7.13	17.73	0.755	7.68	4.58	126.9	clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Nicholas Fuller/CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1138	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 14	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ mm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	CG	40 mL	HCl	80		VOCs		

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: + 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: + 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:	MW-28A	SAMPLE ID:	MW-28A
DATE:	3/22/18		

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 10-20 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 5.82	PURGE PUMP TYPE: Peristaltic

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☒ Low-Flow ☐ Traditional (3 Well Volume)

(20 feet TOC – 5.82 feet TOC) X 0.163 gallons/foot = 2.31 gallons X 3 = 6.93

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 15	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 15	PURGING INITIATED AT: 1038	PURGING ENDED AT: 1107	TOTAL VOLUME PURGED (gallons): 3

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or (mS/cm)	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1042	0.5	0.5		5.89	7.03	16.25	0.348	9.38	4.43	205.7	Clear
1047	0.5	1.0		5.89	7.04	16.27	0.348	7.25	4.32	205.0	Clear
1052	0.5	1.5		5.89	7.05	16.42	0.351	4.69	4.14	204.8	Clear
1057	0.5	2.0		5.89	7.07	16.53	0.353	3.90	3.96	204.1	Clear
1102	0.5	2.5		5.89	7.09	16.57	0.356	3.71	3.91	203.6	Clear
1107	0.5	3.0		5.89	7.09	16.76	0.358	3.63	3.93	202.7	Clear

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Nicholas Fuller /CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1107	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 15	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y (N) FILTER SIZE: ____ mm	Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	CG	40ml	HCl	50 ml		VOCs		

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).
2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:		SAMPLE ID:	MW-56
DATE:	3-22-18		

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/16	WELL SCREEN INTERVAL DEPTH: 53 - 63 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 6.30	PURGE PUMP TYPE: ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☐ Low-Flow ☐ Traditional (3 Well Volume)

(63 feet TOC − 6.3 feet TOC) X 0.16 gallons/foot = 9.0 gallons X 3 =

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 58	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 63	PURGING INITIATED AT: 1055	PURGING ENDED AT: 1140	TOTAL VOLUME PURGED (gallons): 11

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE ~~(mL/min)~~ gpm	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
1055			0.3	10.61	7.59	16.01	0.392	17.4	6.42	19.3	
1100	1.5	1.5		16.33	7.37	18.40	0.386	21.1	0.70	10.4	
1105	1.5	3		22.60	7.49	18.48	0.388	15.2	1.40	-4.6	
1110	1.5	4.5		28.96	7.45	16.59	0.388	16.1	1.79	-7.5	
1115	1.5	6		37.19	7.39	18.54	0.388	13.0	1.93	-5.3	
1120	1	~~6.57~~ 7	0.2	44.61	7.41	18.53	0.386	13.6	1.95	-5.7	
1125	1	8		48.91	7.38	18.62	0.386	15.7	1.92	-6.1	
1130	1	9		52.83	7.42	18.57	0.386	16.4	1.90	-7.4	
1135	1	10		57.54	7.43	18.59	0.386	11.1	1.89	-9.8	
1140	1	~~8.19~~ 11		60.81	7.45	18.61	0.386	9.39	1.89	~~-7.8~~ -7.8	-7.8

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Daniel Gaw /CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1140	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 63	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ mm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	CG	40	HCl	80		VOCs		

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).

2. pH: ± 0.1 units; Specific Conductance: ± 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: ± 0.2 mg/L or 10% saturation (whichever is greater)

GROUNDWATER SAMPLING LOG

SITE NAME:	FORMER MANCHESTER TANK CO.	SITE LOCATION:	850 West Ave. Cedartown, GA
WELL NO:		SAMPLE ID:	MW-54C
DATE:	3-21-18		

PURGING DATA

WELL DIAMETER (inches): 2	TUBING 3/16 DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: ~~40~~ 52 (feet TOC)	STATIC DEPTH TO WATER (feet TOC): 13.22	PURGE PUMP TYPE: ~~Peristaltic~~ ESP

PURGE VOLUME: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY PURGE METHOD: ☐ Low-Flow ☐ Traditional (3 Well Volume)

(52 feet TOC – 13.22 feet TOC) X gallons/foot = 6.2 gallons X 3 = 18.5

INITIAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 47	FINAL PUMP OR TUBING DEPTH IN WELL (feet bgl): 52	PURGING INITIATED AT: 0815	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (mL/min)	DEPTH TO WATER (feet TOC)	pH (standard units)	TEMP. (°C)	SP. COND. (circle units) mmhos/cm or mS/cm	TURBIDITY (NTUs)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP (mV)	COLOR/ ODOR (describe)
					8.49						
0815				14.47	~~18.49~~	~~18.81~~	0.142	68	3.21	119.3	
0820	1.5	1.5	0.3	18.46	~~21.32~~	7.37	0.173	74	1.23	6.0	
0825	1	2.5	0.2	21.90	~~7.32~~	21.12	0.220	94.4	1.01	-23.1	
0830	1	3.5		23.89	7.33	21.55	0.219	87.8	0.93	-26.0	
0835	1	4.5		23.91	7.32	20.74	0.248	49.4	0.91	-22.6	
0840	1	5.5		29.86	7.38	20.34	0.242	61.2	0.89	-23.6	
0845	1	6.5		29.96	7.36	20.29	0.282	56.8	0.84	-18.2	
0850	1	7.5		34.81	7.35	20.39	0.279	41.1	0.90	-17.4	
0855	1	8.5		38.14	7.35	21.88	0.273	36.3	0.93	-16.2	
0900	1	9.5		45.16	7.36	21.69	0.274	32.7	0.98	-16.0	
0905	1	10.5		47.63	7.37	21.91	0.275	26.9	1.02	-15.6	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 1.5" = 0.092; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT)/ AFFILIATION: [illegible]/CDM Smith	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0905	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet bgl): 47-52	TUBING MATERIAL CODE: Teflon	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ mm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	2	CG	40	HCl	80		VOCs	ESP	

REMARK/NOTES:

Hach Field Data: Final Ferrous Iron, mg/L Final Sulfate, mg/L Final CO_2, mg/L Final MNO_4, mg/L

Final Total Iron, mg/L Final Nitrate, mg/L Final Alkalinity, mg/L Dilution Ratio:

Field Instruments:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. Stabilization criteria for range of variation of at least three consecutive readings (required parameters in bold).

2. pH: ± 0.1 units; Specific Conductance: + 5%; Turbidity: < 10 NTUs or until stable; Dissolved Oxygen: + 0.2 mg/L or 10% saturation (whichever is greater)

Attachment A-2

Laboratory Reports

CDM Smith

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 08, 2018

Tom Duffey
CDM Smith Inc.

3200 Windy Hill Road #210 West
Atlanta GA 30339

RE: Cedartown

Dear Tom Duffey: Order No: 1802133

Analytical Environmental Services, Inc. received 10 samples on 2/1/2018 5:10:00 PM
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:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-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 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar

Ioana Pacurar

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1802133

Date: _____ Page _____ of _____

COMPANY: CDM Smith

ADDRESS: 3200 Windy Hill Rd. SE Ste. 210 W Atlanta, GA 30339

PHONE:

EMAIL: DuffeyJT@CDMSmith.com

SAMPLED BY: Daniel Good

SIGNATURE: Daniel Good

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: VOCs 8260	PRESERVATION (see codes)	REMARKS	Number of Containers
1	MW-54C	1-29-18	1442	✓		GW	✓	✓		
2	MW-12C	1-29-18	1630							
3	MW-28A	1-30-18	852							
4	EXP-5	1-30-18	1020							
5	MW-56C	1-30-18	1220							
6	EXP-1	1-30-18	1443							
7	EXP-6B	1-30-18	1650							
8	MW-24B	1-31-18	0945							
9	MW-7C	1-31-18	1545							
10	Dup-1	1-30-18	0820							
11										
12	Trip Blank									
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Daniel Good	2-1-18	1.	2/1/18 0745
2.	2/1/18 1417	2.	2/1/18 2:18
3.	2/1/18 5:10	3. Municee A	2/1/18 5:10pm

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

client FedEx UPS US mail courier Greyhound

other: _____

PROJECT INFORMATION

PROJECT NAME: Cedartown

PROJECT #:

SITE ADDRESS: 850 W. Avenue Cedartown, GA

SEND REPORT TO: DuffeyJT@CdmSmith.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers

Turnaround Time (TAT) 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? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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

Date: 8-Feb-18

Client: CDM Smith Inc.
Project: Cedartown
Lab ID: 1802133

Case Narrative

Sample Receiving Non-conformance:

A trip blank was listed on the Chain of Custody, but was not received. Furthermore, sample information on the Chain of Custody did not match that of the bottle labels as following: sample MW-12C was listed as collected at 16:30 on the Chain of Custody, whereas on the labels it was listed as collected at 16:23. Sample MW-56C was listed as collected at 12:20 on the Chain of Custody, whereas on the labels it was listed as collected at 12:30. Both samples were logged in and analyzed according to the information provided on the Chain of Custody.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1802133-005A,006A,008A & 009A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-54C
Project Name:	Cedartown	**Collection Date:**	1/29/2018 2:42:00 PM
Lab ID:	1802133-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,1,2-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,1-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,1-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,2-Dibromoethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,2-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,2-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,2-Dichloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,3-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
1,4-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
2-Butanone	BRL	50		ug/L	255339	1	02/06/2018 21:13	OM
2-Hexanone	BRL	10		ug/L	255339	1	02/06/2018 21:13	OM
4-Methyl-2-pentanone	BRL	10		ug/L	255339	1	02/06/2018 21:13	OM
Acetone	BRL	50		ug/L	255339	1	02/06/2018 21:13	OM
Benzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Bromodichloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Bromoform	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Bromomethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Carbon disulfide	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Carbon tetrachloride	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Chlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Chloroethane	BRL	10		ug/L	255339	1	02/06/2018 21:13	OM
Chloroform	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Chloromethane	BRL	10		ug/L	255339	1	02/06/2018 21:13	OM
cis-1,2-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Cyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Dibromochloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Dichlorodifluoromethane	BRL	10		ug/L	255339	1	02/06/2018 21:13	OM
Ethylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Freon-113	BRL	10		ug/L	255339	1	02/06/2018 21:13	OM
Isopropylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
m,p-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Methyl acetate	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Methyl tert-butyl ether	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Methylcyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Methylene chloride	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
o-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-54C
Project Name:	Cedartown	**Collection Date:**	1/29/2018 2:42:00 PM
Lab ID:	1802133-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Tetrachloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Toluene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Trichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Trichlorofluoromethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:13	OM
Vinyl chloride	BRL	2.0		ug/L	255339	1	02/06/2018 21:13	OM
Surr: 4-Bromofluorobenzene	94.1	68-127		%REC	255339	1	02/06/2018 21:13	OM
Surr: Dibromofluoromethane	99.4	84.4-122		%REC	255339	1	02/06/2018 21:13	OM
Surr: Toluene-d8	98.5	80.1-116		%REC	255339	1	02/06/2018 21:13	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-12C
Project Name:	Cedartown	**Collection Date:**	1/29/2018 4:30:00 PM
Lab ID:	1802133-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,1,2-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,1-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,1-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,2-Dibromoethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,2-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,2-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,2-Dichloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,3-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
1,4-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
2-Butanone	BRL	50		ug/L	255339	1	02/06/2018 21:39	OM
2-Hexanone	BRL	10		ug/L	255339	1	02/06/2018 21:39	OM
4-Methyl-2-pentanone	BRL	10		ug/L	255339	1	02/06/2018 21:39	OM
Acetone	BRL	50		ug/L	255339	1	02/06/2018 21:39	OM
Benzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Bromodichloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Bromoform	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Bromomethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Carbon disulfide	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Carbon tetrachloride	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Chlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Chloroethane	BRL	10		ug/L	255339	1	02/06/2018 21:39	OM
Chloroform	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Chloromethane	BRL	10		ug/L	255339	1	02/06/2018 21:39	OM
cis-1,2-Dichloroethene	190	5.0		ug/L	255339	1	02/06/2018 21:39	OM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Cyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Dibromochloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Dichlorodifluoromethane	BRL	10		ug/L	255339	1	02/06/2018 21:39	OM
Ethylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Freon-113	BRL	10		ug/L	255339	1	02/06/2018 21:39	OM
Isopropylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
m,p-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Methyl acetate	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Methyl tert-butyl ether	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Methylcyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Methylene chloride	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
o-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-12C
Project Name:	Cedartown	**Collection Date:**	1/29/2018 4:30:00 PM
Lab ID:	1802133-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Tetrachloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Toluene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Trichloroethene	170	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Trichlorofluoromethane	BRL	5.0		ug/L	255339	1	02/06/2018 21:39	OM
Vinyl chloride	BRL	2.0		ug/L	255339	1	02/06/2018 21:39	OM
Surr: 4-Bromofluorobenzene	96	68-127		%REC	255339	1	02/06/2018 21:39	OM
Surr: Dibromofluoromethane	101	84.4-122		%REC	255339	1	02/06/2018 21:39	OM
Surr: Toluene-d8	98.7	80.1-116		%REC	255339	1	02/06/2018 21:39	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-28A
Project Name:	Cedartown	**Collection Date:**	1/30/2018 8:52:00 AM
Lab ID:	1802133-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,1,2-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,1-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,1-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,2-Dibromoethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,2-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,2-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,2-Dichloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,3-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
1,4-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
2-Butanone	BRL	50		ug/L	255339	1	02/06/2018 23:49	OM
2-Hexanone	BRL	10		ug/L	255339	1	02/06/2018 23:49	OM
4-Methyl-2-pentanone	BRL	10		ug/L	255339	1	02/06/2018 23:49	OM
Acetone	BRL	50		ug/L	255339	1	02/06/2018 23:49	OM
Benzene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Bromodichloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Bromoform	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Bromomethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Carbon disulfide	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Carbon tetrachloride	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Chlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Chloroethane	BRL	10		ug/L	255339	1	02/06/2018 23:49	OM
Chloroform	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Chloromethane	BRL	10		ug/L	255339	1	02/06/2018 23:49	OM
cis-1,2-Dichloroethene	25	5.0		ug/L	255339	1	02/06/2018 23:49	OM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Cyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Dibromochloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Dichlorodifluoromethane	BRL	10		ug/L	255339	1	02/06/2018 23:49	OM
Ethylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Freon-113	BRL	10		ug/L	255339	1	02/06/2018 23:49	OM
Isopropylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
m,p-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Methyl acetate	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Methyl tert-butyl ether	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Methylcyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Methylene chloride	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
o-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-28A
Project Name:	Cedartown	**Collection Date:**	1/30/2018 8:52:00 AM
Lab ID:	1802133-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Tetrachloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Toluene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Trichloroethene	76	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Trichlorofluoromethane	BRL	5.0		ug/L	255339	1	02/06/2018 23:49	OM
Vinyl chloride	BRL	2.0		ug/L	255339	1	02/06/2018 23:49	OM
Surr: 4-Bromofluorobenzene	90.3	68-127		%REC	255339	1	02/06/2018 23:49	OM
Surr: Dibromofluoromethane	99.7	84.4-122		%REC	255339	1	02/06/2018 23:49	OM
Surr: Toluene-d8	98.5	80.1-116		%REC	255339	1	02/06/2018 23:49	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-5
Project Name:	Cedartown	**Collection Date:**	1/30/2018 10:20:00 AM
Lab ID:	1802133-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,1,2-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,1-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,1-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,2-Dibromoethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,2-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,2-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,2-Dichloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,3-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
1,4-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
2-Butanone	BRL	50		ug/L	255339	1	02/06/2018 22:30	OM
2-Hexanone	BRL	10		ug/L	255339	1	02/06/2018 22:30	OM
4-Methyl-2-pentanone	BRL	10		ug/L	255339	1	02/06/2018 22:30	OM
Acetone	BRL	50		ug/L	255339	1	02/06/2018 22:30	OM
Benzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Bromodichloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Bromoform	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Bromomethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Carbon disulfide	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Carbon tetrachloride	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Chlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Chloroethane	BRL	10		ug/L	255339	1	02/06/2018 22:30	OM
Chloroform	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Chloromethane	BRL	10		ug/L	255339	1	02/06/2018 22:30	OM
cis-1,2-Dichloroethene	64	5.0		ug/L	255339	1	02/06/2018 22:30	OM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Cyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Dibromochloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Dichlorodifluoromethane	BRL	10		ug/L	255339	1	02/06/2018 22:30	OM
Ethylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Freon-113	BRL	10		ug/L	255339	1	02/06/2018 22:30	OM
Isopropylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
m,p-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Methyl acetate	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Methyl tert-butyl ether	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Methylcyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Methylene chloride	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
o-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-5
Project Name:	Cedartown	**Collection Date:**	1/30/2018 10:20:00 AM
Lab ID:	1802133-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Tetrachloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Toluene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Trichloroethene	26	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Trichlorofluoromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:30	OM
Vinyl chloride	BRL	2.0		ug/L	255339	1	02/06/2018 22:30	OM
Surr: 4-Bromofluorobenzene	95.8	68-127		%REC	255339	1	02/06/2018 22:30	OM
Surr: Dibromofluoromethane	98.3	84.4-122		%REC	255339	1	02/06/2018 22:30	OM
Surr: Toluene-d8	98.3	80.1-116		%REC	255339	1	02/06/2018 22:30	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-56C
Project Name:	Cedartown	**Collection Date:**	1/30/2018 12:20:00 PM
Lab ID:	1802133-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,1,2,2-Tetrachloroethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,1,2-Trichloroethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,1-Dichloroethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,1-Dichloroethene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,2,4-Trichlorobenzene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,2-Dibromo-3-chloropropane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,2-Dibromoethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,2-Dichlorobenzene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,2-Dichloroethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,2-Dichloropropane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,3-Dichlorobenzene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
1,4-Dichlorobenzene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
2-Butanone	BRL	500		ug/L	255339	10	02/07/2018 16:02	OM
2-Hexanone	BRL	100		ug/L	255339	10	02/07/2018 16:02	OM
4-Methyl-2-pentanone	BRL	100		ug/L	255339	10	02/07/2018 16:02	OM
Acetone	BRL	500		ug/L	255339	10	02/07/2018 16:02	OM
Benzene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Bromodichloromethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Bromoform	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Bromomethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Carbon disulfide	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Carbon tetrachloride	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Chlorobenzene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Chloroethane	BRL	100		ug/L	255339	10	02/07/2018 16:02	OM
Chloroform	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Chloromethane	BRL	100		ug/L	255339	10	02/07/2018 16:02	OM
cis-1,2-Dichloroethene	760	500		ug/L	255339	100	02/07/2018 02:49	OM
cis-1,3-Dichloropropene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Cyclohexane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Dibromochloromethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Dichlorodifluoromethane	BRL	100		ug/L	255339	10	02/07/2018 16:02	OM
Ethylbenzene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Freon-113	BRL	100		ug/L	255339	10	02/07/2018 16:02	OM
Isopropylbenzene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
m,p-Xylene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Methyl acetate	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Methyl tert-butyl ether	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Methylcyclohexane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Methylene chloride	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
o-Xylene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-56C
Project Name:	Cedartown	**Collection Date:**	1/30/2018 12:20:00 PM
Lab ID:	1802133-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Tetrachloroethene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Toluene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
trans-1,2-Dichloroethene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
trans-1,3-Dichloropropene	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Trichloroethene	7700	500		ug/L	255339	100	02/07/2018 02:49	OM
Trichlorofluoromethane	BRL	50		ug/L	255339	10	02/07/2018 16:02	OM
Vinyl chloride	BRL	20		ug/L	255339	10	02/07/2018 16:02	OM
Surr: 4-Bromofluorobenzene	97.4	68-127		%REC	255339	100	02/07/2018 02:49	OM
Surr: 4-Bromofluorobenzene	93.7	68-127		%REC	255339	10	02/07/2018 16:02	OM
Surr: Dibromofluoromethane	95.2	84.4-122		%REC	255339	10	02/07/2018 16:02	OM
Surr: Dibromofluoromethane	95.4	84.4-122		%REC	255339	100	02/07/2018 02:49	OM
Surr: Toluene-d8	98.1	80.1-116		%REC	255339	10	02/07/2018 16:02	OM
Surr: Toluene-d8	98	80.1-116		%REC	255339	100	02/07/2018 02:49	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-1
Project Name:	Cedartown	**Collection Date:**	1/30/2018 2:43:00 PM
Lab ID:	1802133-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	2500	250		ug/L	255339	50	02/07/2018 03:14	OM
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,1,2-Trichloroethane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,1-Dichloroethane	810	250		ug/L	255339	50	02/07/2018 03:14	OM
1,1-Dichloroethene	970	250		ug/L	255339	50	02/07/2018 03:14	OM
1,2,4-Trichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,2-Dibromoethane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,2-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,2-Dichloroethane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,2-Dichloropropane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,3-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
1,4-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
2-Butanone	BRL	2500		ug/L	255339	50	02/07/2018 03:14	OM
2-Hexanone	BRL	500		ug/L	255339	50	02/07/2018 03:14	OM
4-Methyl-2-pentanone	BRL	500		ug/L	255339	50	02/07/2018 03:14	OM
Acetone	BRL	2500		ug/L	255339	50	02/07/2018 03:14	OM
Benzene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Bromodichloromethane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Bromoform	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Bromomethane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Carbon disulfide	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Carbon tetrachloride	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Chlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Chloroethane	BRL	500		ug/L	255339	50	02/07/2018 03:14	OM
Chloroform	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Chloromethane	BRL	500		ug/L	255339	50	02/07/2018 03:14	OM
cis-1,2-Dichloroethene	39000	2500		ug/L	255339	500	02/06/2018 20:47	OM
cis-1,3-Dichloropropene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Cyclohexane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Dibromochloromethane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Dichlorodifluoromethane	BRL	500		ug/L	255339	50	02/07/2018 03:14	OM
Ethylbenzene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Freon-113	BRL	500		ug/L	255339	50	02/07/2018 03:14	OM
Isopropylbenzene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
m,p-Xylene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Methyl acetate	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Methyl tert-butyl ether	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Methylcyclohexane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Methylene chloride	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
o-Xylene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-1
Project Name:	Cedartown	**Collection Date:**	1/30/2018 2:43:00 PM
Lab ID:	1802133-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Tetrachloroethene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Toluene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
trans-1,2-Dichloroethene	490	250		ug/L	255339	50	02/07/2018 03:14	OM
trans-1,3-Dichloropropene	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Trichloroethene	1200	250		ug/L	255339	50	02/07/2018 03:14	OM
Trichlorofluoromethane	BRL	250		ug/L	255339	50	02/07/2018 03:14	OM
Vinyl chloride	BRL	100		ug/L	255339	50	02/07/2018 03:14	OM
Surr: 4-Bromofluorobenzene	96.6	68-127		%REC	255339	500	02/06/2018 20:47	OM
Surr: 4-Bromofluorobenzene	97.5	68-127		%REC	255339	50	02/07/2018 03:14	OM
Surr: Dibromofluoromethane	102	84.4-122		%REC	255339	500	02/06/2018 20:47	OM
Surr: Dibromofluoromethane	102	84.4-122		%REC	255339	50	02/07/2018 03:14	OM
Surr: Toluene-d8	99.1	80.1-116		%REC	255339	50	02/07/2018 03:14	OM
Surr: Toluene-d8	99.1	80.1-116		%REC	255339	500	02/06/2018 20:47	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-6B
Project Name:	Cedartown	**Collection Date:**	1/30/2018 4:50:00 PM
Lab ID:	1802133-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,1,2-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,1-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,1-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,2-Dibromoethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,2-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,2-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,2-Dichloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,3-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
1,4-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
2-Butanone	BRL	50		ug/L	255339	1	02/06/2018 22:56	OM
2-Hexanone	BRL	10		ug/L	255339	1	02/06/2018 22:56	OM
4-Methyl-2-pentanone	BRL	10		ug/L	255339	1	02/06/2018 22:56	OM
Acetone	BRL	50		ug/L	255339	1	02/06/2018 22:56	OM
Benzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Bromodichloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Bromoform	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Bromomethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Carbon disulfide	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Carbon tetrachloride	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Chlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Chloroethane	BRL	10		ug/L	255339	1	02/06/2018 22:56	OM
Chloroform	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Chloromethane	BRL	10		ug/L	255339	1	02/06/2018 22:56	OM
cis-1,2-Dichloroethene	72	5.0		ug/L	255339	1	02/06/2018 22:56	OM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Cyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Dibromochloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Dichlorodifluoromethane	BRL	10		ug/L	255339	1	02/06/2018 22:56	OM
Ethylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Freon-113	BRL	10		ug/L	255339	1	02/06/2018 22:56	OM
Isopropylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
m,p-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Methyl acetate	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Methyl tert-butyl ether	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Methylcyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Methylene chloride	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
o-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-6B
Project Name:	Cedartown	**Collection Date:**	1/30/2018 4:50:00 PM
Lab ID:	1802133-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Tetrachloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Toluene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Trichloroethene	13	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Trichlorofluoromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:56	OM
Vinyl chloride	BRL	2.0		ug/L	255339	1	02/06/2018 22:56	OM
Surr: 4-Bromofluorobenzene	95.3	68-127		%REC	255339	1	02/06/2018 22:56	OM
Surr: Dibromofluoromethane	101	84.4-122		%REC	255339	1	02/06/2018 22:56	OM
Surr: Toluene-d8	98.8	80.1-116		%REC	255339	1	02/06/2018 22:56	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-24B
Project Name:	Cedartown	**Collection Date:**	1/31/2018 9:45:00 AM
Lab ID:	1802133-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	1300	250		ug/L	255339	50	02/07/2018 04:05	OM
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,1,2-Trichloroethane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,1-Dichloroethane	630	250		ug/L	255339	50	02/07/2018 04:05	OM
1,1-Dichloroethene	3200	250		ug/L	255339	50	02/07/2018 04:05	OM
1,2,4-Trichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,2-Dibromoethane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,2-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,2-Dichloroethane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,2-Dichloropropane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,3-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
1,4-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
2-Butanone	BRL	2500		ug/L	255339	50	02/07/2018 04:05	OM
2-Hexanone	BRL	500		ug/L	255339	50	02/07/2018 04:05	OM
4-Methyl-2-pentanone	BRL	500		ug/L	255339	50	02/07/2018 04:05	OM
Acetone	BRL	2500		ug/L	255339	50	02/07/2018 04:05	OM
Benzene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Bromodichloromethane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Bromoform	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Bromomethane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Carbon disulfide	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Carbon tetrachloride	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Chlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Chloroethane	BRL	500		ug/L	255339	50	02/07/2018 04:05	OM
Chloroform	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Chloromethane	BRL	500		ug/L	255339	50	02/07/2018 04:05	OM
cis-1,2-Dichloroethene	140000	5000		ug/L	255339	1000	02/06/2018 19:55	OM
cis-1,3-Dichloropropene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Cyclohexane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Dibromochloromethane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Dichlorodifluoromethane	BRL	500		ug/L	255339	50	02/07/2018 04:05	OM
Ethylbenzene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Freon-113	BRL	500		ug/L	255339	50	02/07/2018 04:05	OM
Isopropylbenzene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
m,p-Xylene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Methyl acetate	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Methyl tert-butyl ether	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Methylcyclohexane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Methylene chloride	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
o-Xylene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-24B
Project Name:	Cedartown	**Collection Date:**	1/31/2018 9:45:00 AM
Lab ID:	1802133-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Tetrachloroethene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Toluene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
trans-1,2-Dichloroethene	2400	250		ug/L	255339	50	02/07/2018 04:05	OM
trans-1,3-Dichloropropene	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Trichloroethene	59000	5000		ug/L	255339	1000	02/06/2018 19:55	OM
Trichlorofluoromethane	BRL	250		ug/L	255339	50	02/07/2018 04:05	OM
Vinyl chloride	1100	100		ug/L	255339	50	02/07/2018 04:05	OM
Surr: 4-Bromofluorobenzene	97.1	68-127		%REC	255339	50	02/07/2018 04:05	OM
Surr: 4-Bromofluorobenzene	95.2	68-127		%REC	255339	1000	02/06/2018 19:55	OM
Surr: Dibromofluoromethane	103	84.4-122		%REC	255339	50	02/07/2018 04:05	OM
Surr: Dibromofluoromethane	99.2	84.4-122		%REC	255339	1000	02/06/2018 19:55	OM
Surr: Toluene-d8	98.3	80.1-116		%REC	255339	50	02/07/2018 04:05	OM
Surr: Toluene-d8	98.6	80.1-116		%REC	255339	1000	02/06/2018 19:55	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-7C
Project Name:	Cedartown	**Collection Date:**	1/31/2018 3:45:00 PM
Lab ID:	1802133-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,1,2-Trichloroethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,1-Dichloroethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,1-Dichloroethene	600	250		ug/L	255339	50	02/07/2018 03:40	OM
1,2,4-Trichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,2-Dibromoethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,2-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,2-Dichloroethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,2-Dichloropropane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,3-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
1,4-Dichlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
2-Butanone	BRL	2500		ug/L	255339	50	02/07/2018 03:40	OM
2-Hexanone	BRL	500		ug/L	255339	50	02/07/2018 03:40	OM
4-Methyl-2-pentanone	BRL	500		ug/L	255339	50	02/07/2018 03:40	OM
Acetone	BRL	2500		ug/L	255339	50	02/07/2018 03:40	OM
Benzene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Bromodichloromethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Bromoform	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Bromomethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Carbon disulfide	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Carbon tetrachloride	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Chlorobenzene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Chloroethane	BRL	500		ug/L	255339	50	02/07/2018 03:40	OM
Chloroform	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Chloromethane	BRL	500		ug/L	255339	50	02/07/2018 03:40	OM
cis-1,2-Dichloroethene	39000	2500		ug/L	255339	500	02/06/2018 20:21	OM
cis-1,3-Dichloropropene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Cyclohexane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Dibromochloromethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Dichlorodifluoromethane	BRL	500		ug/L	255339	50	02/07/2018 03:40	OM
Ethylbenzene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Freon-113	BRL	500		ug/L	255339	50	02/07/2018 03:40	OM
Isopropylbenzene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
m,p-Xylene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Methyl acetate	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Methyl tert-butyl ether	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Methylcyclohexane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Methylene chloride	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
o-Xylene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-7C
Project Name:	Cedartown	**Collection Date:**	1/31/2018 3:45:00 PM
Lab ID:	1802133-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Tetrachloroethene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Toluene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
trans-1,2-Dichloroethene	360	250		ug/L	255339	50	02/07/2018 03:40	OM
trans-1,3-Dichloropropene	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Trichloroethene	16000	2500		ug/L	255339	500	02/06/2018 20:21	OM
Trichlorofluoromethane	BRL	250		ug/L	255339	50	02/07/2018 03:40	OM
Vinyl chloride	BRL	100		ug/L	255339	50	02/07/2018 03:40	OM
Surr: 4-Bromofluorobenzene	96.2	68-127		%REC	255339	500	02/06/2018 20:21	OM
Surr: 4-Bromofluorobenzene	97.5	68-127		%REC	255339	50	02/07/2018 03:40	OM
Surr: Dibromofluoromethane	99	84.4-122		%REC	255339	50	02/07/2018 03:40	OM
Surr: Dibromofluoromethane	102	84.4-122		%REC	255339	500	02/06/2018 20:21	OM
Surr: Toluene-d8	99.5	80.1-116		%REC	255339	50	02/07/2018 03:40	OM
Surr: Toluene-d8	99.5	80.1-116		%REC	255339	500	02/06/2018 20:21	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	DUP-1
Project Name:	Cedartown	**Collection Date:**	1/30/2018 8:00:00 AM
Lab ID:	1802133-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,1,2-Trichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,1-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,1-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,2-Dibromoethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,2-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,2-Dichloroethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,2-Dichloropropane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,3-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
1,4-Dichlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
2-Butanone	BRL	50		ug/L	255339	1	02/06/2018 22:05	OM
2-Hexanone	BRL	10		ug/L	255339	1	02/06/2018 22:05	OM
4-Methyl-2-pentanone	BRL	10		ug/L	255339	1	02/06/2018 22:05	OM
Acetone	BRL	50		ug/L	255339	1	02/06/2018 22:05	OM
Benzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Bromodichloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Bromoform	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Bromomethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Carbon disulfide	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Carbon tetrachloride	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Chlorobenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Chloroethane	BRL	10		ug/L	255339	1	02/06/2018 22:05	OM
Chloroform	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Chloromethane	BRL	10		ug/L	255339	1	02/06/2018 22:05	OM
cis-1,2-Dichloroethene	27	5.0		ug/L	255339	1	02/06/2018 22:05	OM
cis-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Cyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Dibromochloromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Dichlorodifluoromethane	BRL	10		ug/L	255339	1	02/06/2018 22:05	OM
Ethylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Freon-113	BRL	10		ug/L	255339	1	02/06/2018 22:05	OM
Isopropylbenzene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
m,p-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Methyl acetate	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Methyl tert-butyl ether	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Methylcyclohexane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Methylene chloride	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
o-Xylene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 8-Feb-18

Client:	CDM Smith Inc.	**Client Sample ID:**	DUP-1
Project Name:	Cedartown	**Collection Date:**	1/30/2018 8:00:00 AM
Lab ID:	1802133-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Tetrachloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Toluene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
trans-1,2-Dichloroethene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
trans-1,3-Dichloropropene	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Trichloroethene	83	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Trichlorofluoromethane	BRL	5.0		ug/L	255339	1	02/06/2018 22:05	OM
Vinyl chloride	BRL	2.0		ug/L	255339	1	02/06/2018 22:05	OM
Surr: 4-Bromofluorobenzene	95.2	68-127		%REC	255339	1	02/06/2018 22:05	OM
Surr: Dibromofluoromethane	106	84.4-122		%REC	255339	1	02/06/2018 22:05	OM
Surr: Toluene-d8	101	80.1-116		%REC	255339	1	02/06/2018 22:05	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 8-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-12C				**Lab ID:** 1802133-002			
Collection Date: 1/29/2018 4:30:00 PM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	190		0.28	5.0	ug/L	255339	1
Trichloroethene	170		0.30	5.0	ug/L	255339	1
Client Sample ID: MW-28A				**Lab ID:** 1802133-003			
Collection Date: 1/30/2018 8:52:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	25		0.28	5.0	ug/L	255339	1
Trichloroethene	76		0.30	5.0	ug/L	255339	1
Client Sample ID: EXP-5				**Lab ID:** 1802133-004			
Collection Date: 1/30/2018 10:20:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	64		0.28	5.0	ug/L	255339	1
Trichloroethene	26		0.30	5.0	ug/L	255339	1
Client Sample ID: MW-56C				**Lab ID:** 1802133-005			
Collection Date: 1/30/2018 12:20:00 PM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	760		28	500	ug/L	255339	100
Trichloroethene	7700		30	500	ug/L	255339	100
Client Sample ID: EXP-1				**Lab ID:** 1802133-006			
Collection Date: 1/30/2018 2:43:00 PM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	2500		15	250	ug/L	255339	50
1,1-Dichloroethane	810		21	250	ug/L	255339	50
1,1-Dichloroethene	970		20	250	ug/L	255339	50
cis-1,2-Dichloroethene	39000		140	2500	ug/L	255339	500
trans-1,2-Dichloroethene	490		15	250	ug/L	255339	50
Trichloroethene	1200		15	250	ug/L	255339	50
Client Sample ID: EXP-6B				**Lab ID:** 1802133-007			
Collection Date: 1/30/2018 4:50:00 PM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	72		0.28	5.0	ug/L	255339	1
Trichloroethene	13		0.30	5.0	ug/L	255339	1
Client Sample ID: MW-24B				**Lab ID:** 1802133-008			
Collection Date: 1/31/2018 9:45:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	1300		15	250	ug/L	255339	50
1,1-Dichloroethane	630		21	250	ug/L	255339	50
1,1-Dichloroethene	3200		20	250	ug/L	255339	50
cis-1,2-Dichloroethene	140000		280	5000	ug/L	255339	1000
trans-1,2-Dichloroethene	2400		15	250	ug/L	255339	50
Trichloroethene	59000		300	5000	ug/L	255339	1000
Vinyl chloride	1100		15	100	ug/L	255339	50
Client Sample ID: MW-7C				**Lab ID:** 1802133-009			
Collection Date: 1/31/2018 3:45:00 PM				**Matrix:** Groundwater			

Analytical Environmental Services, Inc

Date: 8-Feb-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: MW-7C				**Lab ID:** 1802133-009			
Collection Date: 1/31/2018 3:45:00 PM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1-Dichloroethene	600		20	250	ug/L	255339	50
cis-1,2-Dichloroethene	39000		140	2500	ug/L	255339	500
trans-1,2-Dichloroethene	360		15	250	ug/L	255339	50
Trichloroethene	16000		150	2500	ug/L	255339	500
Client Sample ID: DUP-1				**Lab ID:** 1802133-010			
Collection Date: 1/30/2018 8:00:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	27		0.28	5.0	ug/L	255339	1
Trichloroethene	83		0.30	5.0	ug/L	255339	1

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **CDM Smith Inc.** AES Work Order Number: **1802133**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ■ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		Signed and dated.
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.0 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). TR 2/1/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	○	●	○	incomplete info ☐ illegible ☐ no label ☐ other ■	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	○	●	○	samples received but not listed on COC ☐ samples listed on COC not received ■	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	○	●	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). KR 2/2/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). KR 2/2/18

Checklist 6.9.17 Rev 2

Locked

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1802133

ANALYTICAL QC SUMMARY REPORT

BatchID: 255339

Sample ID: **MB-255339**	Client ID:		Units: **ug/L**	Prep Date: **02/05/2018**	Run No: **362271**
SampleType: **MBLK**	TestCode: **TCL VOLATILE ORGANICS SW8260B**		BatchID: **255339**	Analysis Date: **02/05/2018**	Seq No: **8005168**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1802133

ANALYTICAL QC SUMMARY REPORT

BatchID: 255339

Sample ID: **MB-255339** Client ID: Units: **ug/L** Prep Date: **02/05/2018** Run No: **362271**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **255339** Analysis Date: **02/05/2018** Seq No: **8005168**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	46.22	0	50.00		92.4	68	127				
Surr: Dibromofluoromethane	49.21	0	50.00		98.4	84.4	122				
Surr: Toluene-d8	49.12	0	50.00		98.2	80.1	116				

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1802133

ANALYTICAL QC SUMMARY REPORT

BatchID: 255339

Sample ID: **LCS-255339** Client ID: Units: **ug/L** Prep Date: **02/05/2018** Run No: **362271**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **255339** Analysis Date: **02/05/2018** Seq No: **8005169**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57.57	5.0	50.00		115	69	136				
Benzene	51.76	5.0	50.00		104	73.7	126				
Chlorobenzene	51.99	5.0	50.00		104	73.5	124				
Toluene	52.20	5.0	50.00		104	76.8	125				
Trichloroethene	53.10	5.0	50.00		106	70.9	124				
Surr: 4-Bromofluorobenzene	48.00	0	50.00		96.0	68	127				
Surr: Dibromofluoromethane	49.69	0	50.00		99.4	84.4	122				
Surr: Toluene-d8	48.73	0	50.00		97.5	80.1	116				

Sample ID: **1801O45-001AMS** Client ID: Units: **ug/L** Prep Date: **02/05/2018** Run No: **362271**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **255339** Analysis Date: **02/06/2018** Seq No: **8005171**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2932	250	2500		117	65.7	143				
Benzene	2686	250	2500	49.50	105	66.1	137				
Chlorobenzene	2626	250	2500		105	70.9	132				
Toluene	2666	250	2500		107	63.8	141				
Trichloroethene	2680	250	2500		107	70.6	128				
Surr: 4-Bromofluorobenzene	2368	0	2500		94.7	68	127				
Surr: Dibromofluoromethane	2452	0	2500		98.1	84.4	122				
Surr: Toluene-d8	2440	0	2500		97.6	80.1	116				

Sample ID: **1801O45-001AMSD** Client ID: Units: **ug/L** Prep Date: **02/05/2018** Run No: **362271**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **255339** Analysis Date: **02/06/2018** Seq No: **8005172**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	2832	250	2500		113	65.7	143	2932	3.47	17.7	
Benzene	2532	250	2500	49.50	99.3	66.1	137	2686	5.90	20	

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1802133

ANALYTICAL QC SUMMARY REPORT

BatchID: 255339

Sample ID: **1801O45-001AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **02/05/2018** Run No: **362271**
BatchID: **255339** Analysis Date: **02/06/2018** Seq No: **8005172**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	2480	250	2500		99.2	70.9	132	2626	5.72	20	
Toluene	2470	250	2500		98.8	63.8	141	2666	7.65	20	
Trichloroethene	2553	250	2500		102	70.6	128	2680	4.84	20	
Surr: 4-Bromofluorobenzene	2395	0	2500		95.8	68	127	2368	0	0	
Surr: Dibromofluoromethane	2428	0	2500		97.1	84.4	122	2452	0	0	
Surr: Toluene-d8	2446	0	2500		97.9	80.1	116	2440	0	0	

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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

February 23, 2018

Robert Martin
ELOHI Engineering
416 Hooper St. SE
Atlanta GA 30317

RE: FMTC

Dear Robert Martin: Order No: 1802A08

Analytical Environmental Services, Inc. received 14 samples on 2/12/2018 8:00:00 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:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-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 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Chris Pafford
Project Manager

Revision 2/23/2018

3080 Presidential Drive • Atlanta, Georgia 30340 • Tel: 770.457.8177 • Fax: 770.457.8188 • Toll Free: 800.972.4889
www.aesatlanta.com

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

CHAIN OF CUSTODY

Work Order: 1802A08

Date: _____ Page _____ of _____

COMPANY: Eloh. Engineering
ADDRESS: 416 Hooper St SE Atlanta GA 30317
PHONE: 404-867-5781
EMAIL: robert@eloh.net
SAMPLED BY: Rob Martin
SIGNATURE: [signature]

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)
1	INF 1	2/9	10:15	X		
2	EFF 1	2/9	10:15	X		
3	INF 2	2/9	11:15	X		
4	EFF 2	2/9	11:15	X		
5	INF 3	2/9	12:15	X		
6	EFF 3	2/9	12:15	X		
7	TANK	2/10	17:00	X		
8						
9						
10						
11						
12						
13						
14						

ANALYSIS REQUESTED

PRESERVATION (see codes)	O/G 1664 Rose	Semi Vol	BOD	TSS TSS	Alk	Metals	VOC	NO	CYAN				
1	X	X	X	X	X	X	X	X	X				
2	↓	↓	↓	↓	↓	↓	↓	↓	↓				
3													
4													
5													
6	↓	↓	↓	↓	↓	↓	↓	↓	↓				
7							X						

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

REMARKS

Number of Containers

RELINQUISHED BY: DATE/TIME:
1. [signature] 2/11 13:00
2.
3.

RECEIVED BY: DATE/TIME:
1. Tampa Fedex 2/12/18 800
2.
3.

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: Dropbox

PROJECT INFORMATION
PROJECT NAME: FMTC
PROJECT #:
SITE ADDRESS: CEDARTOWN GA
SEND REPORT TO: robert@eloh.net
INVOICE TO: (IF DIFFERENT FROM ABOVE) same
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) 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? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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

Client: ELOHI Engineering
Project: FMTC
Lab ID: 1802A08

Case Narrative

Sample Receiving Nonconformance:

1802A08 was received received outside EPA/Method specified holding time of 48 hours for BOD analysis by method SM5210B. The laboratory proceeded with analysis at the request of Rob Martin via email 02-13-18.

1 of 3 vials for 1802A08-006 was received without a label. The vial was matched by it being received with the other vials inside the sample set kit.

7 Trip Blanks were provided but not listed on the Chain of Custody. Trip blanks analyzed at no cost to the client.

At the request of Rob Martin via phone 02-12-18 the laboratory proceeded with analysis of 625, 608, TDS and TSS and filtration for dissolved metals on sample 1802A08-007.

1 of 3 vials for 1802A08-003 was received with headspace present as signified by >1/4 inch bubble present. The laboratory proceeded with analysis using the remaining vials.

Metals Analysis by Method 200.7:

LCS-255784 recovery for Selenium was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Oil and Grease Analysis by Method 1664B:

Due to the limited sample volume provided, samples 1802A08-004C, -005C required reduced volume extractions resulting in elevated reporting limits.

Semi-Volatile organics Analysis by Method 625:

LCS-255879 recovery for Phenanthrene, Pyrene, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate was outside control limits biased high. Target analyte was not detected in the analytical samples and data is reportable with high bias.

Pesticide Analysis by Method 608:

Matrix spike and matrix spike duplicate analyses were not performed with Batch 255744 due to insufficient sample volume.

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	44		0.30	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,1,2,2-Tetrachloroethane	BRL		0.34	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,1-Dichloroethane	23		0.43	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,1-Dichloroethene	64		0.40	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,2,4-Trichlorobenzene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,2-Dibromo-3-chloropropane	BRL		0.68	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,2-Dibromoethane	BRL		0.57	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,2-Dichlorobenzene	BRL		0.45	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,2-Dichloropropane	BRL		0.35	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,3-Dichlorobenzene	BRL		0.31	5.0	ug/L	255960	1	02/15/2018 22:27	OM
1,4-Dichlorobenzene	BRL		0.33	5.0	ug/L	255960	1	02/15/2018 22:27	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 22:27	OM
2-Hexanone	BRL		0.67	10	ug/L	255960	1	02/15/2018 22:27	OM
4-Methyl-2-pentanone	BRL		0.44	10	ug/L	255960	1	02/15/2018 22:27	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 22:27	OM
Benzene	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Bromodichloromethane	BRL		0.25	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Bromoform	BRL		0.19	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Bromomethane	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Carbon disulfide	BRL		0.74	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Carbon tetrachloride	BRL		0.29	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Chlorobenzene	BRL		0.42	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Chloroethane	BRL		0.31	10	ug/L	255960	1	02/15/2018 22:27	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Chloromethane	BRL		0.21	10	ug/L	255960	1	02/15/2018 22:27	OM
cis-1,2-Dichloroethene	3600		28	500	ug/L	255960	100	02/16/2018 20:20	OM
cis-1,3-Dichloropropene	BRL		0.31	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Cyclohexane	BRL		1.0	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Dibromochloromethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Dichlorodifluoromethane	BRL		0.15	10	ug/L	255960	1	02/15/2018 22:27	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 22:27	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:27	OM
m,p-Xylene	BRL		0.60	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Methyl acetate	BRL		0.42	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Methyl tert-butyl ether	BRL		0.45	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Methylcyclohexane	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:27	OM

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:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		1.2	5.0	ug/L	255960	1	02/15/2018 22:27	OM
o-Xylene	BRL		0.18	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Styrene	BRL		0.15	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:27	OM
trans-1,2-Dichloroethene	46		0.30	5.0	ug/L	255960	1	02/15/2018 22:27	OM
trans-1,3-Dichloropropene	BRL		0.32	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Trichloroethene	1600		30	500	ug/L	255960	100	02/16/2018 20:20	OM
Trichlorofluoromethane	BRL		0.18	5.0	ug/L	255960	1	02/15/2018 22:27	OM
Vinyl chloride	31		0.30	2.0	ug/L	255960	1	02/15/2018 22:27	OM
Surr: 4-Bromofluorobenzene	101		0	68-127	%REC	255960	1	02/15/2018 22:27	OM
Surr: 4-Bromofluorobenzene	102		0	68-127	%REC	255960	100	02/16/2018 20:20	OM
Surr: Dibromofluoromethane	104		0	84.4-122	%REC	255960	1	02/15/2018 22:27	OM
Surr: Dibromofluoromethane	106		0	84.4-122	%REC	255960	100	02/16/2018 20:20	OM
Surr: Toluene-d8	100		0	80.1-116	%REC	255960	1	02/15/2018 22:27	OM
Surr: Toluene-d8	101		0	80.1-116	%REC	255960	100	02/16/2018 20:20	OM
Total Phosphorus E365.1					**(E365.1)**				
Phosphorus, Total (As P)	0.062		0.009	0.050	mg/L	255735	1	02/13/2018 14:51	JM
Total Oil and Grease (HEM) E1664B					**(E1664)**				
Oil and Grease	BRL		2.1	5.0	mg/L	255734	1	02/13/2018 13:45	JW
Total Metals by ICP E200.7					**(E200.7)**				
Arsenic	BRL		0.0141	0.0500	mg/L	255784	1	02/14/2018 16:01	JR
Cadmium	0.0085		0.0016	0.0050	mg/L	255784	1	02/14/2018 16:01	JR
Chromium	0.0167		0.0025	0.0100	mg/L	255784	1	02/14/2018 16:01	JR
Copper	BRL		0.0022	0.0250	mg/L	255784	1	02/14/2018 16:01	JR
Iron	1.48		0.0258	0.100	mg/L	255784	1	02/14/2018 16:01	JR
Lead	BRL		0.0028	0.0100	mg/L	255784	1	02/14/2018 16:01	JR
Magnesium	15.3		0.0267	5.00	mg/L	255784	1	02/14/2018 16:01	JR
Manganese	0.116		0.0013	0.0150	mg/L	255784	1	02/14/2018 16:01	JR
Molybdenum	BRL		0.0126	0.0340	mg/L	255784	1	02/14/2018 16:01	JR
Nickel	BRL		0.0047	0.0200	mg/L	255784	1	02/14/2018 16:01	JR
Selenium	BRL		0.0088	0.0200	mg/L	255784	1	02/14/2018 16:01	JR
Silver	BRL		0.0013	0.0050	mg/L	255784	1	02/14/2018 16:01	JR
Zinc	BRL		0.0057	0.0500	mg/L	255784	1	02/14/2018 16:01	JR
Total Mercury E245.1					**(E245.1)**				

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:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Mercury E245.1					**(E245.1)**				
Mercury	BRL		0.00006	0.00020	mg/L	255763	1	02/14/2018 01:16	AS
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**				
Cyanide, Total	BRL		0.005	0.010	mg/L	255910	1	02/16/2018 09:30	AK
Residue, Suspended (TSS) by SM2540D									
Residue, Suspended (TSS)	58.5		1.0	5.0	mg/L	255933	1	02/15/2018 15:23	AA
Residue, Dissolved (TDS) by SM2540C									
Residue, Dissolved (TDS)	265		5	10	mg/L	255850	1	02/14/2018 16:00	BD
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
1,2,4-Trichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 18:15	YH
1,2-Dichlorobenzene	BRL		1.2	10	ug/L	255879	1	02/15/2018 18:15	YH
1,2-Diphenylhydrazine	BRL		1.7	10	ug/L	255879	1	02/15/2018 18:15	YH
1,3-Dichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 18:15	YH
1,4-Dichlorobenzene	BRL		2.0	10	ug/L	255879	1	02/15/2018 18:15	YH
2,4,6-Trichlorophenol	BRL		2.4	10	ug/L	255879	1	02/15/2018 18:15	YH
2,4-Dichlorophenol	BRL		1.0	10	ug/L	255879	1	02/15/2018 18:15	YH
2,4-Dimethylphenol	BRL		1.6	10	ug/L	255879	1	02/15/2018 18:15	YH
2,4-Dinitrophenol	BRL		3.9	25	ug/L	255879	1	02/15/2018 18:15	YH
2,4-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 18:15	YH
2,6-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 18:15	YH
2-Chloronaphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 18:15	YH
2-Chlorophenol	BRL		1.9	10	ug/L	255879	1	02/15/2018 18:15	YH
2-Nitrophenol	BRL		4.8	10	ug/L	255879	1	02/15/2018 18:15	YH
3,3´-Dichlorobenzidine	BRL		1.0	10	ug/L	255879	1	02/15/2018 18:15	YH
4,6-Dinitro-2-methylphenol	BRL		4.4	20	ug/L	255879	1	02/15/2018 18:15	YH
4-Bromophenyl phenyl ether	BRL		2.3	10	ug/L	255879	1	02/15/2018 18:15	YH
4-Chloro-3-methylphenol	BRL		1.7	10	ug/L	255879	1	02/15/2018 18:15	YH
4-Chlorophenyl phenyl ether	BRL		0.73	10	ug/L	255879	1	02/15/2018 18:15	YH
4-Nitrophenol	BRL		4.2	25	ug/L	255879	1	02/15/2018 18:15	YH
Acenaphthene	BRL		0.86	10	ug/L	255879	1	02/15/2018 18:15	YH
Acenaphthylene	BRL		0.87	10	ug/L	255879	1	02/15/2018 18:15	YH
Anthracene	BRL		1.1	10	ug/L	255879	1	02/15/2018 18:15	YH
Benz(a)anthracene	BRL		0.95	10	ug/L	255879	1	02/15/2018 18:15	YH
Benzidine	BRL		78	80	ug/L	255879	1	02/15/2018 18:15	YH
Benzo(a)pyrene	BRL		0.76	10	ug/L	255879	1	02/15/2018 18:15	YH
Benzo(b)fluoranthene	BRL		0.91	10	ug/L	255879	1	02/15/2018 18:15	YH

Qualifiers:

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- 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:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	255879	1	02/15/2018 18:15	YH
Benzo(k)fluoranthene	BRL		0.45	10	ug/L	255879	1	02/15/2018 18:15	YH
Bis(2-chloroethoxy)methane	BRL		1.9	10	ug/L	255879	1	02/15/2018 18:15	YH
Bis(2-chloroethyl)ether	BRL		1.5	10	ug/L	255879	1	02/15/2018 18:15	YH
Bis(2-chloroisopropyl)ether	BRL		1.2	10	ug/L	255879	1	02/15/2018 18:15	YH
Bis(2-ethylhexyl)phthalate	BRL		0.69	10	ug/L	255879	1	02/15/2018 18:15	YH
Butyl benzyl phthalate	BRL		0.73	10	ug/L	255879	1	02/15/2018 18:15	YH
Chrysene	BRL		0.67	10	ug/L	255879	1	02/15/2018 18:15	YH
Di-n-butyl phthalate	BRL		0.67	10	ug/L	255879	1	02/15/2018 18:15	YH
Di-n-octyl phthalate	BRL		0.70	10	ug/L	255879	1	02/15/2018 18:15	YH
Dibenz(a,h)anthracene	BRL		0.66	10	ug/L	255879	1	02/15/2018 18:15	YH
Diethyl phthalate	BRL		0.79	10	ug/L	255879	1	02/15/2018 18:15	YH
Dimethyl phthalate	BRL		0.86	10	ug/L	255879	1	02/15/2018 18:15	YH
Fluoranthene	BRL		0.76	10	ug/L	255879	1	02/15/2018 18:15	YH
Fluorene	BRL		1.4	10	ug/L	255879	1	02/15/2018 18:15	YH
Hexachlorobenzene	BRL		2.4	10	ug/L	255879	1	02/15/2018 18:15	YH
Hexachlorobutadiene	BRL		2.0	10	ug/L	255879	1	02/15/2018 18:15	YH
Hexachlorocyclopentadiene	BRL		4.8	10	ug/L	255879	1	02/15/2018 18:15	YH
Hexachloroethane	BRL		2.0	10	ug/L	255879	1	02/15/2018 18:15	YH
Indeno(1,2,3-cd)pyrene	BRL		1.0	10	ug/L	255879	1	02/15/2018 18:15	YH
Isophorone	BRL		1.2	10	ug/L	255879	1	02/15/2018 18:15	YH
N-Nitrosodi-n-propylamine	BRL		0.76	10	ug/L	255879	1	02/15/2018 18:15	YH
N-Nitrosodimethylamine	BRL		2.5	10	ug/L	255879	1	02/15/2018 18:15	YH
N-Nitrosodiphenylamine	BRL		0.97	10	ug/L	255879	1	02/15/2018 18:15	YH
Naphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 18:15	YH
Nitrobenzene	BRL		1.9	10	ug/L	255879	1	02/15/2018 18:15	YH
Pentachlorophenol	BRL		4.7	25	ug/L	255879	1	02/15/2018 18:15	YH
Phenanthrene	BRL		0.60	10	ug/L	255879	1	02/15/2018 18:15	YH
Phenol	BRL		1.1	10	ug/L	255879	1	02/15/2018 18:15	YH
Pyrene	BRL		0.96	10	ug/L	255879	1	02/15/2018 18:15	YH
Surr: 2,4,6-Tribromophenol	79.3		0	51.4-138	%REC	255879	1	02/15/2018 18:15	YH
Surr: 2-Fluorobiphenyl	69.9		0	44.6-119	%REC	255879	1	02/15/2018 18:15	YH
Surr: 2-Fluorophenol	68.5		0	27.2-120	%REC	255879	1	02/15/2018 18:15	YH
Surr: 4-Terphenyl-d14	97		0	47.1-136	%REC	255879	1	02/15/2018 18:15	YH
Surr: Nitrobenzene-d5	63		0	40.7-119	%REC	255879	1	02/15/2018 18:15	YH
Surr: Phenol-d5	56.9		0	18.1-120	%REC	255879	1	02/15/2018 18:15	YH
NITROGEN, TOTAL SM4500-N									
Nitrogen, Total	1.0		0.5	0.5	mg/L	R363097	1	02/15/2018 00:00	TL

Qualifiers:

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
METALS, DISSOLVED E200.7					**(E200.7)**				
Iron	BRL		0.0258	0.100	mg/L	255694	1	02/14/2018 15:18	JR
Manganese	0.0605		0.0013	0.0150	mg/L	255694	1	02/14/2018 15:18	JR
Hydrogen Ion (pH) by SM4500 H+ B									
pH	7.11	H	0.0100	0.0100	pH Units	R362855	1	02/13/2018 13:00	BD
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
4,4´-DDD	BRL		0.016	0.20	ug/L	255744	1	02/14/2018 21:54	RS
4,4´-DDE	BRL		0.024	0.20	ug/L	255744	1	02/14/2018 21:54	RS
4,4´-DDT	BRL		0.026	0.20	ug/L	255744	1	02/14/2018 21:54	RS
Aldrin	BRL		0.030	0.10	ug/L	255744	1	02/14/2018 21:54	RS
alpha-BHC	BRL		0.018	0.10	ug/L	255744	1	02/14/2018 21:54	RS
Aroclor 1016	BRL		0.082	1.0	ug/L	255744	1	02/14/2018 21:54	RS
Aroclor 1221	BRL		0.13	1.0	ug/L	255744	1	02/14/2018 21:54	RS
Aroclor 1232	BRL		0.093	1.0	ug/L	255744	1	02/14/2018 21:54	RS
Aroclor 1242	BRL		0.10	1.0	ug/L	255744	1	02/14/2018 21:54	RS
Aroclor 1248	BRL		0.079	1.0	ug/L	255744	1	02/14/2018 21:54	RS
Aroclor 1254	BRL		0.17	1.0	ug/L	255744	1	02/14/2018 21:54	RS
Aroclor 1260	BRL		0.036	1.0	ug/L	255744	1	02/14/2018 21:54	RS
beta-BHC	BRL		0.015	0.10	ug/L	255744	1	02/14/2018 21:54	RS
Chlordane	BRL		0.074	0.50	ug/L	255744	1	02/14/2018 21:54	RS
delta-BHC	BRL		0.014	0.10	ug/L	255744	1	02/14/2018 21:54	RS
Dieldrin	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 21:54	RS
Endosulfan I	BRL		0.020	0.50	ug/L	255744	1	02/14/2018 21:54	RS
Endosulfan II	BRL		0.022	0.50	ug/L	255744	1	02/14/2018 21:54	RS
Endosulfan sulfate	BRL		0.018	0.50	ug/L	255744	1	02/14/2018 21:54	RS
Endrin	BRL		0.019	0.20	ug/L	255744	1	02/14/2018 21:54	RS
Endrin aldehyde	BRL		0.015	0.20	ug/L	255744	1	02/14/2018 21:54	RS
gamma-BHC	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 21:54	RS
Heptachlor	BRL		0.026	0.10	ug/L	255744	1	02/14/2018 21:54	RS
Heptachlor epoxide	BRL		0.024	0.10	ug/L	255744	1	02/14/2018 21:54	RS
Methoxychlor	BRL		0.057	0.30	ug/L	255744	1	02/14/2018 21:54	RS
Toxaphene	BRL		0.21	2.0	ug/L	255744	1	02/14/2018 21:54	RS
Surr: Decachlorobiphenyl	61.2		0	15.5-120	%REC	255744	1	02/14/2018 21:54	RS
Surr: Tetrachloro-m-xylene	78		0	23.1-135	%REC	255744	1	02/14/2018 21:54	RS
Biochemical Oxygen Demand by SM5210B									
Biochemical Oxygen Demand	BRL	H	5.0	5.0	mg/L	255787	1	02/14/2018 10:00	EA

Qualifiers:

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BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
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N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-001	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Alkalinity by SM2320B									
Alkalinity, Total (As CaCO3)	168		1.68	3.00	mg/L	R363296	1	02/15/2018 16:45	AK

Qualifiers:

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N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-002	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,1,2,2-Tetrachloroethane	BRL		0.34	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,2,4-Trichlorobenzene	BRL		0.39	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,2-Dibromo-3-chloropropane	BRL		0.68	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,2-Dibromoethane	BRL		0.57	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,2-Dichlorobenzene	BRL		0.45	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,2-Dichloropropane	BRL		0.35	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,3-Dichlorobenzene	BRL		0.31	5.0	ug/L	255960	1	02/16/2018 16:00	OM
1,4-Dichlorobenzene	BRL		0.33	5.0	ug/L	255960	1	02/16/2018 16:00	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/16/2018 16:00	OM
2-Hexanone	BRL		0.67	10	ug/L	255960	1	02/16/2018 16:00	OM
4-Methyl-2-pentanone	BRL		0.44	10	ug/L	255960	1	02/16/2018 16:00	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/16/2018 16:00	OM
Benzene	BRL		0.37	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Bromodichloromethane	BRL		0.25	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Bromoform	BRL		0.19	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Bromomethane	BRL		0.39	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Carbon disulfide	BRL		0.74	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Carbon tetrachloride	BRL		0.29	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Chlorobenzene	BRL		0.42	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Chloroethane	BRL		0.31	10	ug/L	255960	1	02/16/2018 16:00	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Chloromethane	BRL		0.21	10	ug/L	255960	1	02/16/2018 16:00	OM
cis-1,2-Dichloroethene	26		0.28	5.0	ug/L	255960	1	02/16/2018 16:00	OM
cis-1,3-Dichloropropene	BRL		0.31	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Cyclohexane	BRL		1.0	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Dibromochloromethane	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Dichlorodifluoromethane	BRL		0.15	10	ug/L	255960	1	02/16/2018 16:00	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/16/2018 16:00	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 16:00	OM
m,p-Xylene	BRL		0.60	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Methyl acetate	BRL		0.42	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Methyl tert-butyl ether	BRL		0.45	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Methylcyclohexane	BRL		0.39	5.0	ug/L	255960	1	02/16/2018 16:00	OM

Qualifiers:

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-002	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		1.2	5.0	ug/L	255960	1	02/16/2018 16:00	OM
o-Xylene	BRL		0.18	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Styrene	BRL		0.15	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/16/2018 16:00	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/16/2018 16:00	OM
trans-1,3-Dichloropropene	BRL		0.32	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Trichlorofluoromethane	BRL		0.18	5.0	ug/L	255960	1	02/16/2018 16:00	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/16/2018 16:00	OM
Surr: 4-Bromofluorobenzene	100		0	68-127	%REC	255960	1	02/16/2018 16:00	OM
Surr: Dibromofluoromethane	105		0	84.4-122	%REC	255960	1	02/16/2018 16:00	OM
Surr: Toluene-d8	99.6		0	80.1-116	%REC	255960	1	02/16/2018 16:00	OM
Total Phosphorus E365.1					**(E365.1)**				
Phosphorus, Total (As P)	0.067		0.009	0.050	mg/L	255735	1	02/13/2018 14:52	JM
Total Oil and Grease (HEM) E1664B					**(E1664)**				
Oil and Grease	BRL		2.1	5.0	mg/L	255734	1	02/13/2018 13:45	JW
Total Metals by ICP E200.7					**(E200.7)**				
Arsenic	BRL		0.0141	0.0500	mg/L	255784	1	02/14/2018 16:37	JR
Cadmium	BRL		0.0016	0.0050	mg/L	255784	1	02/14/2018 16:37	JR
Chromium	BRL		0.0025	0.0100	mg/L	255784	1	02/14/2018 16:37	JR
Copper	BRL		0.0022	0.0250	mg/L	255784	1	02/14/2018 16:37	JR
Iron	1.67		0.0258	0.100	mg/L	255784	1	02/14/2018 16:37	JR
Lead	BRL		0.0028	0.0100	mg/L	255784	1	02/14/2018 16:37	JR
Magnesium	14.9		0.0267	5.00	mg/L	255784	1	02/14/2018 16:37	JR
Manganese	0.105		0.0013	0.0150	mg/L	255784	1	02/14/2018 16:37	JR
Molybdenum	BRL		0.0126	0.0340	mg/L	255784	1	02/14/2018 16:37	JR
Nickel	BRL		0.0047	0.0200	mg/L	255784	1	02/14/2018 16:37	JR
Selenium	BRL		0.0088	0.0200	mg/L	255784	1	02/14/2018 16:37	JR
Silver	BRL		0.0013	0.0050	mg/L	255784	1	02/14/2018 16:37	JR
Zinc	BRL		0.0057	0.0500	mg/L	255784	1	02/14/2018 16:37	JR
Total Mercury E245.1					**(E245.1)**				
Mercury	BRL		0.00006	0.00020	mg/L	255763	1	02/14/2018 01:40	AS
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**				
Cyanide, Total	BRL		0.005	0.010	mg/L	255910	1	02/16/2018 09:30	AK

Qualifiers:

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- 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:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-002	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Residue, Suspended (TSS) by SM2540D									
Residue, Suspended (TSS)	61.5		1.0	5.0	mg/L	255933	1	02/15/2018 15:24	AA
Residue, Dissolved (TDS) by SM2540C									
Residue, Dissolved (TDS)	240		5	10	mg/L	255850	1	02/14/2018 16:00	BD
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
1,2,4-Trichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 18:42	YH
1,2-Dichlorobenzene	BRL		1.2	10	ug/L	255879	1	02/15/2018 18:42	YH
1,2-Diphenylhydrazine	BRL		1.7	10	ug/L	255879	1	02/15/2018 18:42	YH
1,3-Dichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 18:42	YH
1,4-Dichlorobenzene	BRL		2.0	10	ug/L	255879	1	02/15/2018 18:42	YH
2,4,6-Trichlorophenol	BRL		2.4	10	ug/L	255879	1	02/15/2018 18:42	YH
2,4-Dichlorophenol	BRL		1.0	10	ug/L	255879	1	02/15/2018 18:42	YH
2,4-Dimethylphenol	BRL		1.6	10	ug/L	255879	1	02/15/2018 18:42	YH
2,4-Dinitrophenol	BRL		3.9	25	ug/L	255879	1	02/15/2018 18:42	YH
2,4-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 18:42	YH
2,6-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 18:42	YH
2-Chloronaphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 18:42	YH
2-Chlorophenol	BRL		1.9	10	ug/L	255879	1	02/15/2018 18:42	YH
2-Nitrophenol	BRL		4.8	10	ug/L	255879	1	02/15/2018 18:42	YH
3,3´-Dichlorobenzidine	BRL		1.0	10	ug/L	255879	1	02/15/2018 18:42	YH
4,6-Dinitro-2-methylphenol	BRL		4.4	20	ug/L	255879	1	02/15/2018 18:42	YH
4-Bromophenyl phenyl ether	BRL		2.3	10	ug/L	255879	1	02/15/2018 18:42	YH
4-Chloro-3-methylphenol	BRL		1.7	10	ug/L	255879	1	02/15/2018 18:42	YH
4-Chlorophenyl phenyl ether	BRL		0.73	10	ug/L	255879	1	02/15/2018 18:42	YH
4-Nitrophenol	BRL		4.2	25	ug/L	255879	1	02/15/2018 18:42	YH
Acenaphthene	BRL		0.86	10	ug/L	255879	1	02/15/2018 18:42	YH
Acenaphthylene	BRL		0.87	10	ug/L	255879	1	02/15/2018 18:42	YH
Anthracene	BRL		1.1	10	ug/L	255879	1	02/15/2018 18:42	YH
Benz(a)anthracene	BRL		0.95	10	ug/L	255879	1	02/15/2018 18:42	YH
Benzidine	BRL		78	80	ug/L	255879	1	02/15/2018 18:42	YH
Benzo(a)pyrene	BRL		0.76	10	ug/L	255879	1	02/15/2018 18:42	YH
Benzo(b)fluoranthene	BRL		0.91	10	ug/L	255879	1	02/15/2018 18:42	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	255879	1	02/15/2018 18:42	YH
Benzo(k)fluoranthene	BRL		0.45	10	ug/L	255879	1	02/15/2018 18:42	YH
Bis(2-chloroethoxy)methane	BRL		1.9	10	ug/L	255879	1	02/15/2018 18:42	YH
Bis(2-chloroethyl)ether	BRL		1.5	10	ug/L	255879	1	02/15/2018 18:42	YH
Bis(2-chloroisopropyl)ether	BRL		1.2	10	ug/L	255879	1	02/15/2018 18:42	YH
Bis(2-ethylhexyl)phthalate	BRL		0.69	10	ug/L	255879	1	02/15/2018 18:42	YH

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-002	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
Butyl benzyl phthalate	BRL		0.73	10	ug/L	255879	1	02/15/2018 18:42	YH
Chrysene	BRL		0.67	10	ug/L	255879	1	02/15/2018 18:42	YH
Di-n-butyl phthalate	BRL		0.67	10	ug/L	255879	1	02/15/2018 18:42	YH
Di-n-octyl phthalate	BRL		0.70	10	ug/L	255879	1	02/15/2018 18:42	YH
Dibenz(a,h)anthracene	BRL		0.66	10	ug/L	255879	1	02/15/2018 18:42	YH
Diethyl phthalate	BRL		0.79	10	ug/L	255879	1	02/15/2018 18:42	YH
Dimethyl phthalate	BRL		0.86	10	ug/L	255879	1	02/15/2018 18:42	YH
Fluoranthene	BRL		0.76	10	ug/L	255879	1	02/15/2018 18:42	YH
Fluorene	BRL		1.4	10	ug/L	255879	1	02/15/2018 18:42	YH
Hexachlorobenzene	BRL		2.4	10	ug/L	255879	1	02/15/2018 18:42	YH
Hexachlorobutadiene	BRL		2.0	10	ug/L	255879	1	02/15/2018 18:42	YH
Hexachlorocyclopentadiene	BRL		4.8	10	ug/L	255879	1	02/15/2018 18:42	YH
Hexachloroethane	BRL		2.0	10	ug/L	255879	1	02/15/2018 18:42	YH
Indeno(1,2,3-cd)pyrene	BRL		1.0	10	ug/L	255879	1	02/15/2018 18:42	YH
Isophorone	BRL		1.2	10	ug/L	255879	1	02/15/2018 18:42	YH
N-Nitrosodi-n-propylamine	BRL		0.76	10	ug/L	255879	1	02/15/2018 18:42	YH
N-Nitrosodimethylamine	BRL		2.5	10	ug/L	255879	1	02/15/2018 18:42	YH
N-Nitrosodiphenylamine	BRL		0.97	10	ug/L	255879	1	02/15/2018 18:42	YH
Naphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 18:42	YH
Nitrobenzene	BRL		1.9	10	ug/L	255879	1	02/15/2018 18:42	YH
Pentachlorophenol	BRL		4.7	25	ug/L	255879	1	02/15/2018 18:42	YH
Phenanthrene	BRL		0.60	10	ug/L	255879	1	02/15/2018 18:42	YH
Phenol	BRL		1.1	10	ug/L	255879	1	02/15/2018 18:42	YH
Pyrene	BRL		0.96	10	ug/L	255879	1	02/15/2018 18:42	YH
Surr: 2,4,6-Tribromophenol	70		0	51.4-138	%REC	255879	1	02/15/2018 18:42	YH
Surr: 2-Fluorobiphenyl	59.5		0	44.6-119	%REC	255879	1	02/15/2018 18:42	YH
Surr: 2-Fluorophenol	58.5		0	27.2-120	%REC	255879	1	02/15/2018 18:42	YH
Surr: 4-Terphenyl-d14	90.2		0	47.1-136	%REC	255879	1	02/15/2018 18:42	YH
Surr: Nitrobenzene-d5	56		0	40.7-119	%REC	255879	1	02/15/2018 18:42	YH
Surr: Phenol-d5	45.8		0	18.1-120	%REC	255879	1	02/15/2018 18:42	YH
NITROGEN, TOTAL SM4500-N									
Nitrogen, Total	1.0		0.5	0.5	mg/L	R363097	1	02/15/2018 00:00	TL
METALS, DISSOLVED E200.7					**(E200.7)**				
Iron	BRL		0.0258	0.100	mg/L	255694	1	02/14/2018 15:22	JR
Manganese	0.0543		0.0013	0.0150	mg/L	255694	1	02/14/2018 15:22	JR
Hydrogen Ion (pH) by SM4500 H+ B									

Qualifiers:

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BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
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N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 1
Project Name:	FMTC	**Collection Date:**	2/9/2018 10:15:00 AM
Lab ID:	1802A08-002	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Hydrogen Ion (pH) by SM4500 H+ B									
pH	8.05	H	0.0100	0.0100	pH Units	R362855	1	02/13/2018 13:00	BD
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
4,4´-DDD	BRL		0.016	0.20	ug/L	255744	1	02/14/2018 22:05	RS
4,4´-DDE	BRL		0.024	0.20	ug/L	255744	1	02/14/2018 22:05	RS
4,4´-DDT	BRL		0.026	0.20	ug/L	255744	1	02/14/2018 22:05	RS
Aldrin	BRL		0.030	0.10	ug/L	255744	1	02/14/2018 22:05	RS
alpha-BHC	BRL		0.018	0.10	ug/L	255744	1	02/14/2018 22:05	RS
Aroclor 1016	BRL		0.082	1.0	ug/L	255744	1	02/14/2018 22:05	RS
Aroclor 1221	BRL		0.13	1.0	ug/L	255744	1	02/14/2018 22:05	RS
Aroclor 1232	BRL		0.093	1.0	ug/L	255744	1	02/14/2018 22:05	RS
Aroclor 1242	BRL		0.10	1.0	ug/L	255744	1	02/14/2018 22:05	RS
Aroclor 1248	BRL		0.079	1.0	ug/L	255744	1	02/14/2018 22:05	RS
Aroclor 1254	BRL		0.17	1.0	ug/L	255744	1	02/14/2018 22:05	RS
Aroclor 1260	BRL		0.036	1.0	ug/L	255744	1	02/14/2018 22:05	RS
beta-BHC	BRL		0.015	0.10	ug/L	255744	1	02/14/2018 22:05	RS
Chlordane	BRL		0.074	0.50	ug/L	255744	1	02/14/2018 22:05	RS
delta-BHC	BRL		0.014	0.10	ug/L	255744	1	02/14/2018 22:05	RS
Dieldrin	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:05	RS
Endosulfan I	BRL		0.020	0.50	ug/L	255744	1	02/14/2018 22:05	RS
Endosulfan II	BRL		0.022	0.50	ug/L	255744	1	02/14/2018 22:05	RS
Endosulfan sulfate	BRL		0.018	0.50	ug/L	255744	1	02/14/2018 22:05	RS
Endrin	BRL		0.019	0.20	ug/L	255744	1	02/14/2018 22:05	RS
Endrin aldehyde	BRL		0.015	0.20	ug/L	255744	1	02/14/2018 22:05	RS
gamma-BHC	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:05	RS
Heptachlor	BRL		0.026	0.10	ug/L	255744	1	02/14/2018 22:05	RS
Heptachlor epoxide	BRL		0.024	0.10	ug/L	255744	1	02/14/2018 22:05	RS
Methoxychlor	BRL		0.057	0.30	ug/L	255744	1	02/14/2018 22:05	RS
Toxaphene	BRL		0.21	2.0	ug/L	255744	1	02/14/2018 22:05	RS
Surr: Decachlorobiphenyl	71.1		0	15.5-120	%REC	255744	1	02/14/2018 22:05	RS
Surr: Tetrachloro-m-xylene	73.7		0	23.1-135	%REC	255744	1	02/14/2018 22:05	RS
Biochemical Oxygen Demand by SM5210B									
Biochemical Oxygen Demand	BRL	H	5.0	5.0	mg/L	255787	1	02/14/2018 10:00	EA
Alkalinity by SM2320B									
Alkalinity, Total (As CaCO3)	155		8.40	15.0	mg/L	R363296	5	02/16/2018 14:00	AK

Qualifiers:

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N	Analyte not NELAC certified	>	Greater than Result value
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NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-003	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	37		0.30	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,1,2,2-Tetrachloroethane	BRL		0.34	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,1-Dichloroethane	16		0.43	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,1-Dichloroethene	46		0.40	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,2,4-Trichlorobenzene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,2-Dibromo-3-chloropropane	BRL		0.68	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,2-Dibromoethane	BRL		0.57	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,2-Dichlorobenzene	BRL		0.45	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,2-Dichloropropane	BRL		0.35	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,3-Dichlorobenzene	BRL		0.31	5.0	ug/L	255960	1	02/15/2018 22:52	OM
1,4-Dichlorobenzene	BRL		0.33	5.0	ug/L	255960	1	02/15/2018 22:52	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 22:52	OM
2-Hexanone	BRL		0.67	10	ug/L	255960	1	02/15/2018 22:52	OM
4-Methyl-2-pentanone	BRL		0.44	10	ug/L	255960	1	02/15/2018 22:52	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 22:52	OM
Benzene	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Bromodichloromethane	BRL		0.25	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Bromoform	BRL		0.19	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Bromomethane	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Carbon disulfide	BRL		0.74	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Carbon tetrachloride	BRL		0.29	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Chlorobenzene	BRL		0.42	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Chloroethane	BRL		0.31	10	ug/L	255960	1	02/15/2018 22:52	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Chloromethane	BRL		0.21	10	ug/L	255960	1	02/15/2018 22:52	OM
cis-1,2-Dichloroethene	2200		14	250	ug/L	255960	50	02/16/2018 20:46	OM
cis-1,3-Dichloropropene	BRL		0.31	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Cyclohexane	BRL		1.0	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Dibromochloromethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Dichlorodifluoromethane	BRL		0.15	10	ug/L	255960	1	02/15/2018 22:52	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 22:52	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:52	OM
m,p-Xylene	BRL		0.60	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Methyl acetate	BRL		0.42	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Methyl tert-butyl ether	BRL		0.45	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Methylcyclohexane	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:52	OM

Qualifiers:

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-003	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
Methylene chloride	BRL		1.2	5.0	ug/L	255960	1	02/15/2018 22:52	OM
o-Xylene	BRL		0.18	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Styrene	BRL		0.15	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:52	OM
trans-1,2-Dichloroethene	34		0.30	5.0	ug/L	255960	1	02/15/2018 22:52	OM
trans-1,3-Dichloropropene	BRL		0.32	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Trichloroethene	950		15	250	ug/L	255960	50	02/16/2018 20:46	OM
Trichlorofluoromethane	BRL		0.18	5.0	ug/L	255960	1	02/15/2018 22:52	OM
Vinyl chloride	17		0.30	2.0	ug/L	255960	1	02/15/2018 22:52	OM
Surr: 4-Bromofluorobenzene	103		0	68-127	%REC	255960	50	02/16/2018 20:46	OM
Surr: 4-Bromofluorobenzene	101		0	68-127	%REC	255960	1	02/15/2018 22:52	OM
Surr: Dibromofluoromethane	105		0	84.4-122	%REC	255960	50	02/16/2018 20:46	OM
Surr: Dibromofluoromethane	108		0	84.4-122	%REC	255960	1	02/15/2018 22:52	OM
Surr: Toluene-d8	99.6		0	80.1-116	%REC	255960	50	02/16/2018 20:46	OM
Surr: Toluene-d8	100		0	80.1-116	%REC	255960	1	02/15/2018 22:52	OM
Total Phosphorus E365.1					**(E365.1)**				
Phosphorus, Total (As P)	BRL		0.009	0.050	mg/L	255735	1	02/13/2018 14:52	JM
Total Oil and Grease (HEM) E1664B					**(E1664)**				
Oil and Grease	BRL		2.1	5.0	mg/L	255734	1	02/13/2018 13:45	JW
Total Metals by ICP E200.7					**(E200.7)**				
Arsenic	BRL		0.0141	0.0500	mg/L	255784	1	02/14/2018 16:40	JR
Cadmium	BRL		0.0016	0.0050	mg/L	255784	1	02/14/2018 16:40	JR
Chromium	BRL		0.0025	0.0100	mg/L	255784	1	02/14/2018 16:40	JR
Copper	BRL		0.0022	0.0250	mg/L	255784	1	02/14/2018 16:40	JR
Iron	0.716		0.0258	0.100	mg/L	255784	1	02/14/2018 16:40	JR
Lead	BRL		0.0028	0.0100	mg/L	255784	1	02/14/2018 16:40	JR
Magnesium	14.3		0.0267	5.00	mg/L	255784	1	02/14/2018 16:40	JR
Manganese	0.0771		0.0013	0.0150	mg/L	255784	1	02/14/2018 16:40	JR
Molybdenum	BRL		0.0126	0.0340	mg/L	255784	1	02/14/2018 16:40	JR
Nickel	BRL		0.0047	0.0200	mg/L	255784	1	02/14/2018 16:40	JR
Selenium	BRL		0.0088	0.0200	mg/L	255784	1	02/14/2018 16:40	JR
Silver	BRL		0.0013	0.0050	mg/L	255784	1	02/14/2018 16:40	JR
Zinc	BRL		0.0057	0.0500	mg/L	255784	1	02/14/2018 16:40	JR
Total Mercury E245.1					**(E245.1)**				

Qualifiers:

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- < Less than Result value
- Narr See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-003	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Mercury E245.1					**(E245.1)**				
Mercury	BRL		0.00006	0.00020	mg/L	255763	1	02/14/2018 01:52	AS
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**				
Cyanide, Total	BRL		0.005	0.010	mg/L	255910	1	02/16/2018 09:30	AK
Residue, Suspended (TSS) by SM2540D									
Residue, Suspended (TSS)	25.5		1.0	5.0	mg/L	255933	1	02/15/2018 15:24	AA
Residue, Dissolved (TDS) by SM2540C									
Residue, Dissolved (TDS)	230		5	10	mg/L	255850	1	02/14/2018 16:00	BD
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
1,2,4-Trichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 19:08	YH
1,2-Dichlorobenzene	BRL		1.2	10	ug/L	255879	1	02/15/2018 19:08	YH
1,2-Diphenylhydrazine	BRL		1.7	10	ug/L	255879	1	02/15/2018 19:08	YH
1,3-Dichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 19:08	YH
1,4-Dichlorobenzene	BRL		2.0	10	ug/L	255879	1	02/15/2018 19:08	YH
2,4,6-Trichlorophenol	BRL		2.4	10	ug/L	255879	1	02/15/2018 19:08	YH
2,4-Dichlorophenol	BRL		1.0	10	ug/L	255879	1	02/15/2018 19:08	YH
2,4-Dimethylphenol	BRL		1.6	10	ug/L	255879	1	02/15/2018 19:08	YH
2,4-Dinitrophenol	BRL		3.9	25	ug/L	255879	1	02/15/2018 19:08	YH
2,4-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 19:08	YH
2,6-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 19:08	YH
2-Chloronaphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 19:08	YH
2-Chlorophenol	BRL		1.9	10	ug/L	255879	1	02/15/2018 19:08	YH
2-Nitrophenol	BRL		4.8	10	ug/L	255879	1	02/15/2018 19:08	YH
3,3´-Dichlorobenzidine	BRL		1.0	10	ug/L	255879	1	02/15/2018 19:08	YH
4,6-Dinitro-2-methylphenol	BRL		4.4	20	ug/L	255879	1	02/15/2018 19:08	YH
4-Bromophenyl phenyl ether	BRL		2.3	10	ug/L	255879	1	02/15/2018 19:08	YH
4-Chloro-3-methylphenol	BRL		1.7	10	ug/L	255879	1	02/15/2018 19:08	YH
4-Chlorophenyl phenyl ether	BRL		0.73	10	ug/L	255879	1	02/15/2018 19:08	YH
4-Nitrophenol	BRL		4.2	25	ug/L	255879	1	02/15/2018 19:08	YH
Acenaphthene	BRL		0.86	10	ug/L	255879	1	02/15/2018 19:08	YH
Acenaphthylene	BRL		0.87	10	ug/L	255879	1	02/15/2018 19:08	YH
Anthracene	BRL		1.1	10	ug/L	255879	1	02/15/2018 19:08	YH
Benz(a)anthracene	BRL		0.95	10	ug/L	255879	1	02/15/2018 19:08	YH
Benzidine	BRL		78	80	ug/L	255879	1	02/15/2018 19:08	YH
Benzo(a)pyrene	BRL		0.76	10	ug/L	255879	1	02/15/2018 19:08	YH
Benzo(b)fluoranthene	BRL		0.91	10	ug/L	255879	1	02/15/2018 19:08	YH

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-003	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	255879	1	02/15/2018 19:08	YH
Benzo(k)fluoranthene	BRL		0.45	10	ug/L	255879	1	02/15/2018 19:08	YH
Bis(2-chloroethoxy)methane	BRL		1.9	10	ug/L	255879	1	02/15/2018 19:08	YH
Bis(2-chloroethyl)ether	BRL		1.5	10	ug/L	255879	1	02/15/2018 19:08	YH
Bis(2-chloroisopropyl)ether	BRL		1.2	10	ug/L	255879	1	02/15/2018 19:08	YH
Bis(2-ethylhexyl)phthalate	BRL		0.69	10	ug/L	255879	1	02/15/2018 19:08	YH
Butyl benzyl phthalate	BRL		0.73	10	ug/L	255879	1	02/15/2018 19:08	YH
Chrysene	BRL		0.67	10	ug/L	255879	1	02/15/2018 19:08	YH
Di-n-butyl phthalate	BRL		0.67	10	ug/L	255879	1	02/15/2018 19:08	YH
Di-n-octyl phthalate	BRL		0.70	10	ug/L	255879	1	02/15/2018 19:08	YH
Dibenz(a,h)anthracene	BRL		0.66	10	ug/L	255879	1	02/15/2018 19:08	YH
Diethyl phthalate	BRL		0.79	10	ug/L	255879	1	02/15/2018 19:08	YH
Dimethyl phthalate	BRL		0.86	10	ug/L	255879	1	02/15/2018 19:08	YH
Fluoranthene	BRL		0.76	10	ug/L	255879	1	02/15/2018 19:08	YH
Fluorene	BRL		1.4	10	ug/L	255879	1	02/15/2018 19:08	YH
Hexachlorobenzene	BRL		2.4	10	ug/L	255879	1	02/15/2018 19:08	YH
Hexachlorobutadiene	BRL		2.0	10	ug/L	255879	1	02/15/2018 19:08	YH
Hexachlorocyclopentadiene	BRL		4.8	10	ug/L	255879	1	02/15/2018 19:08	YH
Hexachloroethane	BRL		2.0	10	ug/L	255879	1	02/15/2018 19:08	YH
Indeno(1,2,3-cd)pyrene	BRL		1.0	10	ug/L	255879	1	02/15/2018 19:08	YH
Isophorone	BRL		1.2	10	ug/L	255879	1	02/15/2018 19:08	YH
N-Nitrosodi-n-propylamine	BRL		0.76	10	ug/L	255879	1	02/15/2018 19:08	YH
N-Nitrosodimethylamine	BRL		2.5	10	ug/L	255879	1	02/15/2018 19:08	YH
N-Nitrosodiphenylamine	BRL		0.97	10	ug/L	255879	1	02/15/2018 19:08	YH
Naphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 19:08	YH
Nitrobenzene	BRL		1.9	10	ug/L	255879	1	02/15/2018 19:08	YH
Pentachlorophenol	BRL		4.7	25	ug/L	255879	1	02/15/2018 19:08	YH
Phenanthrene	BRL		0.60	10	ug/L	255879	1	02/15/2018 19:08	YH
Phenol	BRL		1.1	10	ug/L	255879	1	02/15/2018 19:08	YH
Pyrene	BRL		0.96	10	ug/L	255879	1	02/15/2018 19:08	YH
Surr: 2,4,6-Tribromophenol	76.6		0	51.4-138	%REC	255879	1	02/15/2018 19:08	YH
Surr: 2-Fluorobiphenyl	65.3		0	44.6-119	%REC	255879	1	02/15/2018 19:08	YH
Surr: 2-Fluorophenol	62.6		0	27.2-120	%REC	255879	1	02/15/2018 19:08	YH
Surr: 4-Terphenyl-d14	95.5		0	47.1-136	%REC	255879	1	02/15/2018 19:08	YH
Surr: Nitrobenzene-d5	57.7		0	40.7-119	%REC	255879	1	02/15/2018 19:08	YH
Surr: Phenol-d5	50.1		0	18.1-120	%REC	255879	1	02/15/2018 19:08	YH
NITROGEN, TOTAL SM4500-N									
Nitrogen, Total	0.8		0.5	0.5	mg/L	R363097	1	02/15/2018 00:00	TL

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-003	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
METALS, DISSOLVED E200.7					**(E200.7)**				
Iron	BRL		0.0258	0.100	mg/L	255694	1	02/14/2018 15:25	JR
Manganese	0.0558		0.0013	0.0150	mg/L	255694	1	02/14/2018 15:25	JR
Hydrogen Ion (pH) by SM4500 H+ B									
pH	7.19	H	0.0100	0.0100	pH Units	R362855	1	02/13/2018 13:00	BD
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
4,4´-DDD	BRL		0.016	0.20	ug/L	255744	1	02/14/2018 22:16	RS
4,4´-DDE	BRL		0.024	0.20	ug/L	255744	1	02/14/2018 22:16	RS
4,4´-DDT	BRL		0.026	0.20	ug/L	255744	1	02/14/2018 22:16	RS
Aldrin	BRL		0.030	0.10	ug/L	255744	1	02/14/2018 22:16	RS
alpha-BHC	BRL		0.018	0.10	ug/L	255744	1	02/14/2018 22:16	RS
Aroclor 1016	BRL		0.082	1.0	ug/L	255744	1	02/14/2018 22:16	RS
Aroclor 1221	BRL		0.13	1.0	ug/L	255744	1	02/14/2018 22:16	RS
Aroclor 1232	BRL		0.093	1.0	ug/L	255744	1	02/14/2018 22:16	RS
Aroclor 1242	BRL		0.10	1.0	ug/L	255744	1	02/14/2018 22:16	RS
Aroclor 1248	BRL		0.079	1.0	ug/L	255744	1	02/14/2018 22:16	RS
Aroclor 1254	BRL		0.17	1.0	ug/L	255744	1	02/14/2018 22:16	RS
Aroclor 1260	BRL		0.036	1.0	ug/L	255744	1	02/14/2018 22:16	RS
beta-BHC	BRL		0.015	0.10	ug/L	255744	1	02/14/2018 22:16	RS
Chlordane	BRL		0.074	0.50	ug/L	255744	1	02/14/2018 22:16	RS
delta-BHC	BRL		0.014	0.10	ug/L	255744	1	02/14/2018 22:16	RS
Dieldrin	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:16	RS
Endosulfan I	BRL		0.020	0.50	ug/L	255744	1	02/14/2018 22:16	RS
Endosulfan II	BRL		0.022	0.50	ug/L	255744	1	02/14/2018 22:16	RS
Endosulfan sulfate	BRL		0.018	0.50	ug/L	255744	1	02/14/2018 22:16	RS
Endrin	BRL		0.019	0.20	ug/L	255744	1	02/14/2018 22:16	RS
Endrin aldehyde	BRL		0.015	0.20	ug/L	255744	1	02/14/2018 22:16	RS
gamma-BHC	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:16	RS
Heptachlor	BRL		0.026	0.10	ug/L	255744	1	02/14/2018 22:16	RS
Heptachlor epoxide	BRL		0.024	0.10	ug/L	255744	1	02/14/2018 22:16	RS
Methoxychlor	BRL		0.057	0.30	ug/L	255744	1	02/14/2018 22:16	RS
Toxaphene	BRL		0.21	2.0	ug/L	255744	1	02/14/2018 22:16	RS
Surr: Decachlorobiphenyl	74.2		0	15.5-120	%REC	255744	1	02/14/2018 22:16	RS
Surr: Tetrachloro-m-xylene	77.5		0	23.1-135	%REC	255744	1	02/14/2018 22:16	RS
Biochemical Oxygen Demand by SM5210B									
Biochemical Oxygen Demand	BRL	H	5.0	5.0	mg/L	255787	1	02/14/2018 10:00	EA

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-003	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Alkalinity by SM2320B									
Alkalinity, Total (As CaCO3)	155		8.40	15.0	mg/L	R363296	5	02/16/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-004	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/17/2018 14:52	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/17/2018 14:52	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/17/2018 14:52	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/17/2018 14:52	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/17/2018 14:52	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/17/2018 14:52	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/17/2018 14:52	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/17/2018 14:52	OM
cis-1,2-Dichloroethene	18		0.28	5.0	ug/L	255960	1	02/17/2018 14:52	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/17/2018 14:52	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/17/2018 14:52	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/17/2018 14:52	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/17/2018 14:52	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/17/2018 14:52	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/17/2018 14:52	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/17/2018 14:52	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/17/2018 14:52	OM
Surr: 4-Bromofluorobenzene	102		0	68-127	%REC	255960	1	02/17/2018 14:52	OM
Surr: Dibromofluoromethane	107		0	84.4-122	%REC	255960	1	02/17/2018 14:52	OM
Surr: Toluene-d8	101		0	80.1-116	%REC	255960	1	02/17/2018 14:52	OM
Total Phosphorus E365.1					**(E365.1)**				
Phosphorus, Total (As P)	BRL		0.009	0.050	mg/L	255735	1	02/13/2018 14:53	JM
Total Oil and Grease (HEM) E1664B					**(E1664)**				
Oil and Grease	BRL		2.3	5.4	mg/L	255863	1	02/15/2018 08:30	GR
Total Metals by ICP E200.7					**(E200.7)**				
Arsenic	BRL		0.0141	0.0500	mg/L	255784	1	02/14/2018 16:44	JR
Cadmium	BRL		0.0016	0.0050	mg/L	255784	1	02/14/2018 16:44	JR
Chromium	BRL		0.0025	0.0100	mg/L	255784	1	02/14/2018 16:44	JR
Copper	BRL		0.0022	0.0250	mg/L	255784	1	02/14/2018 16:44	JR
Iron	0.736		0.0258	0.100	mg/L	255784	1	02/14/2018 16:44	JR
Lead	BRL		0.0028	0.0100	mg/L	255784	1	02/14/2018 16:44	JR
Magnesium	14.6		0.0267	5.00	mg/L	255784	1	02/14/2018 16:44	JR
Manganese	0.0686		0.0013	0.0150	mg/L	255784	1	02/14/2018 16:44	JR
Molybdenum	BRL		0.0126	0.0340	mg/L	255784	1	02/14/2018 16:44	JR
Nickel	BRL		0.0047	0.0200	mg/L	255784	1	02/14/2018 16:44	JR
Selenium	BRL		0.0088	0.0200	mg/L	255784	1	02/14/2018 16:44	JR

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-004	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP E200.7					**(E200.7)**				
Silver	BRL		0.0013	0.0050	mg/L	255784	1	02/14/2018 16:44	JR
Zinc	BRL		0.0057	0.0500	mg/L	255784	1	02/14/2018 16:44	JR
Total Mercury E245.1					**(E245.1)**				
Mercury	BRL		0.00006	0.00020	mg/L	255763	1	02/14/2018 01:56	AS
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**				
Cyanide, Total	BRL		0.005	0.010	mg/L	255910	1	02/16/2018 09:30	AK
Residue, Suspended (TSS) by SM2540D									
Residue, Suspended (TSS)	33.0		1.0	5.0	mg/L	255933	1	02/15/2018 15:25	AA
Residue, Dissolved (TDS) by SM2540C									
Residue, Dissolved (TDS)	238		5	10	mg/L	255850	1	02/14/2018 16:00	BD
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
1,2,4-Trichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 19:35	YH
1,2-Dichlorobenzene	BRL		1.2	10	ug/L	255879	1	02/15/2018 19:35	YH
1,2-Diphenylhydrazine	BRL		1.7	10	ug/L	255879	1	02/15/2018 19:35	YH
1,3-Dichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 19:35	YH
1,4-Dichlorobenzene	BRL		2.0	10	ug/L	255879	1	02/15/2018 19:35	YH
2,4,6-Trichlorophenol	BRL		2.4	10	ug/L	255879	1	02/15/2018 19:35	YH
2,4-Dichlorophenol	BRL		1.0	10	ug/L	255879	1	02/15/2018 19:35	YH
2,4-Dimethylphenol	BRL		1.6	10	ug/L	255879	1	02/15/2018 19:35	YH
2,4-Dinitrophenol	BRL		3.9	25	ug/L	255879	1	02/15/2018 19:35	YH
2,4-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 19:35	YH
2,6-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 19:35	YH
2-Chloronaphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 19:35	YH
2-Chlorophenol	BRL		1.9	10	ug/L	255879	1	02/15/2018 19:35	YH
2-Nitrophenol	BRL		4.8	10	ug/L	255879	1	02/15/2018 19:35	YH
3,3´-Dichlorobenzidine	BRL		1.0	10	ug/L	255879	1	02/15/2018 19:35	YH
4,6-Dinitro-2-methylphenol	BRL		4.4	20	ug/L	255879	1	02/15/2018 19:35	YH
4-Bromophenyl phenyl ether	BRL		2.3	10	ug/L	255879	1	02/15/2018 19:35	YH
4-Chloro-3-methylphenol	BRL		1.7	10	ug/L	255879	1	02/15/2018 19:35	YH
4-Chlorophenyl phenyl ether	BRL		0.73	10	ug/L	255879	1	02/15/2018 19:35	YH
4-Nitrophenol	BRL		4.2	25	ug/L	255879	1	02/15/2018 19:35	YH
Acenaphthene	BRL		0.86	10	ug/L	255879	1	02/15/2018 19:35	YH
Acenaphthylene	BRL		0.87	10	ug/L	255879	1	02/15/2018 19:35	YH
Anthracene	BRL		1.1	10	ug/L	255879	1	02/15/2018 19:35	YH
Benz(a)anthracene	BRL		0.95	10	ug/L	255879	1	02/15/2018 19:35	YH

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-004	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
Benzidine	BRL		78	80	ug/L	255879	1	02/15/2018 19:35	YH
Benzo(a)pyrene	BRL		0.76	10	ug/L	255879	1	02/15/2018 19:35	YH
Benzo(b)fluoranthene	BRL		0.91	10	ug/L	255879	1	02/15/2018 19:35	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	255879	1	02/15/2018 19:35	YH
Benzo(k)fluoranthene	BRL		0.45	10	ug/L	255879	1	02/15/2018 19:35	YH
Bis(2-chloroethoxy)methane	BRL		1.9	10	ug/L	255879	1	02/15/2018 19:35	YH
Bis(2-chloroethyl)ether	BRL		1.5	10	ug/L	255879	1	02/15/2018 19:35	YH
Bis(2-chloroisopropyl)ether	BRL		1.2	10	ug/L	255879	1	02/15/2018 19:35	YH
Bis(2-ethylhexyl)phthalate	BRL		0.69	10	ug/L	255879	1	02/15/2018 19:35	YH
Butyl benzyl phthalate	BRL		0.73	10	ug/L	255879	1	02/15/2018 19:35	YH
Chrysene	BRL		0.67	10	ug/L	255879	1	02/15/2018 19:35	YH
Di-n-butyl phthalate	BRL		0.67	10	ug/L	255879	1	02/15/2018 19:35	YH
Di-n-octyl phthalate	BRL		0.70	10	ug/L	255879	1	02/15/2018 19:35	YH
Dibenz(a,h)anthracene	BRL		0.66	10	ug/L	255879	1	02/15/2018 19:35	YH
Diethyl phthalate	BRL		0.79	10	ug/L	255879	1	02/15/2018 19:35	YH
Dimethyl phthalate	BRL		0.86	10	ug/L	255879	1	02/15/2018 19:35	YH
Fluoranthene	BRL		0.76	10	ug/L	255879	1	02/15/2018 19:35	YH
Fluorene	BRL		1.4	10	ug/L	255879	1	02/15/2018 19:35	YH
Hexachlorobenzene	BRL		2.4	10	ug/L	255879	1	02/15/2018 19:35	YH
Hexachlorobutadiene	BRL		2.0	10	ug/L	255879	1	02/15/2018 19:35	YH
Hexachlorocyclopentadiene	BRL		4.8	10	ug/L	255879	1	02/15/2018 19:35	YH
Hexachloroethane	BRL		2.0	10	ug/L	255879	1	02/15/2018 19:35	YH
Indeno(1,2,3-cd)pyrene	BRL		1.0	10	ug/L	255879	1	02/15/2018 19:35	YH
Isophorone	BRL		1.2	10	ug/L	255879	1	02/15/2018 19:35	YH
N-Nitrosodi-n-propylamine	BRL		0.76	10	ug/L	255879	1	02/15/2018 19:35	YH
N-Nitrosodimethylamine	BRL		2.5	10	ug/L	255879	1	02/15/2018 19:35	YH
N-Nitrosodiphenylamine	BRL		0.97	10	ug/L	255879	1	02/15/2018 19:35	YH
Naphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 19:35	YH
Nitrobenzene	BRL		1.9	10	ug/L	255879	1	02/15/2018 19:35	YH
Pentachlorophenol	BRL		4.7	25	ug/L	255879	1	02/15/2018 19:35	YH
Phenanthrene	BRL		0.60	10	ug/L	255879	1	02/15/2018 19:35	YH
Phenol	BRL		1.1	10	ug/L	255879	1	02/15/2018 19:35	YH
Pyrene	BRL		0.96	10	ug/L	255879	1	02/15/2018 19:35	YH
Surr: 2,4,6-Tribromophenol	75		0	51.4-138	%REC	255879	1	02/15/2018 19:35	YH
Surr: 2-Fluorobiphenyl	61.3		0	44.6-119	%REC	255879	1	02/15/2018 19:35	YH
Surr: 2-Fluorophenol	57		0	27.2-120	%REC	255879	1	02/15/2018 19:35	YH
Surr: 4-Terphenyl-d14	92		0	47.1-136	%REC	255879	1	02/15/2018 19:35	YH
Surr: Nitrobenzene-d5	56.6		0	40.7-119	%REC	255879	1	02/15/2018 19:35	YH
Surr: Phenol-d5	45.7		0	18.1-120	%REC	255879	1	02/15/2018 19:35	YH

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-004	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
NITROGEN, TOTAL SM4500-N									
Nitrogen, Total	1.0		0.5	0.5	mg/L	R363097	1	02/15/2018 00:00	TL
METALS, DISSOLVED E200.7					**(E200.7)**				
Iron	BRL		0.0258	0.100	mg/L	255694	1	02/14/2018 15:28	JR
Manganese	0.0534		0.0013	0.0150	mg/L	255694	1	02/14/2018 15:28	JR
Hydrogen Ion (pH) by SM4500 H+ B									
pH	8.05	H	0.0100	0.0100	pH Units	R362855	1	02/13/2018 13:00	BD
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
4,4´-DDD	BRL		0.016	0.20	ug/L	255744	1	02/14/2018 22:27	RS
4,4´-DDE	BRL		0.024	0.20	ug/L	255744	1	02/14/2018 22:27	RS
4,4´-DDT	BRL		0.026	0.20	ug/L	255744	1	02/14/2018 22:27	RS
Aldrin	BRL		0.030	0.10	ug/L	255744	1	02/14/2018 22:27	RS
alpha-BHC	BRL		0.018	0.10	ug/L	255744	1	02/14/2018 22:27	RS
Aroclor 1016	BRL		0.082	1.0	ug/L	255744	1	02/14/2018 22:27	RS
Aroclor 1221	BRL		0.13	1.0	ug/L	255744	1	02/14/2018 22:27	RS
Aroclor 1232	BRL		0.093	1.0	ug/L	255744	1	02/14/2018 22:27	RS
Aroclor 1242	BRL		0.10	1.0	ug/L	255744	1	02/14/2018 22:27	RS
Aroclor 1248	BRL		0.079	1.0	ug/L	255744	1	02/14/2018 22:27	RS
Aroclor 1254	BRL		0.17	1.0	ug/L	255744	1	02/14/2018 22:27	RS
Aroclor 1260	BRL		0.036	1.0	ug/L	255744	1	02/14/2018 22:27	RS
beta-BHC	BRL		0.015	0.10	ug/L	255744	1	02/14/2018 22:27	RS
Chlordane	BRL		0.074	0.50	ug/L	255744	1	02/14/2018 22:27	RS
delta-BHC	BRL		0.014	0.10	ug/L	255744	1	02/14/2018 22:27	RS
Dieldrin	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:27	RS
Endosulfan I	BRL		0.020	0.50	ug/L	255744	1	02/14/2018 22:27	RS
Endosulfan II	BRL		0.022	0.50	ug/L	255744	1	02/14/2018 22:27	RS
Endosulfan sulfate	BRL		0.018	0.50	ug/L	255744	1	02/14/2018 22:27	RS
Endrin	BRL		0.019	0.20	ug/L	255744	1	02/14/2018 22:27	RS
Endrin aldehyde	BRL		0.015	0.20	ug/L	255744	1	02/14/2018 22:27	RS
gamma-BHC	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:27	RS
Heptachlor	BRL		0.026	0.10	ug/L	255744	1	02/14/2018 22:27	RS
Heptachlor epoxide	BRL		0.024	0.10	ug/L	255744	1	02/14/2018 22:27	RS
Methoxychlor	BRL		0.057	0.30	ug/L	255744	1	02/14/2018 22:27	RS
Toxaphene	BRL		0.21	2.0	ug/L	255744	1	02/14/2018 22:27	RS
Surr: Decachlorobiphenyl	77		0	15.5-120	%REC	255744	1	02/14/2018 22:27	RS
Surr: Tetrachloro-m-xylene	91.1		0	23.1-135	%REC	255744	1	02/14/2018 22:27	RS

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 2
Project Name:	FMTC	**Collection Date:**	2/9/2018 11:15:00 AM
Lab ID:	1802A08-004	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Biochemical Oxygen Demand by SM5210B									
Biochemical Oxygen Demand	BRL	H	5.0	5.0	mg/L	255787	1	02/14/2018 10:00	EA
Alkalinity by SM2320B									
Alkalinity, Total (As CaCO3)	150		8.40	15.0	mg/L	R363296	5	02/16/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-005	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	32		0.30	5.0	ug/L	255960	1	02/15/2018 23:18	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 23:18	OM
1,1-Dichloroethane	13		0.43	5.0	ug/L	255960	1	02/15/2018 23:18	OM
1,1-Dichloroethene	36		0.40	5.0	ug/L	255960	1	02/15/2018 23:18	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 23:18	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 23:18	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 23:18	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 23:18	OM
cis-1,2-Dichloroethene	1600		14	250	ug/L	255960	50	02/16/2018 15:22	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 23:18	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 23:18	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 23:18	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 23:18	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 23:18	OM
trans-1,2-Dichloroethene	26		0.30	5.0	ug/L	255960	1	02/15/2018 23:18	OM
Trichloroethene	740		15	250	ug/L	255960	50	02/16/2018 15:22	OM
Vinyl chloride	12		0.30	2.0	ug/L	255960	1	02/15/2018 23:18	OM
Surr: 4-Bromofluorobenzene	100		0	68-127	%REC	255960	50	02/16/2018 15:22	OM
Surr: 4-Bromofluorobenzene	99.6		0	68-127	%REC	255960	1	02/15/2018 23:18	OM
Surr: Dibromofluoromethane	104		0	84.4-122	%REC	255960	50	02/16/2018 15:22	OM
Surr: Dibromofluoromethane	104		0	84.4-122	%REC	255960	1	02/15/2018 23:18	OM
Surr: Toluene-d8	101		0	80.1-116	%REC	255960	50	02/16/2018 15:22	OM
Surr: Toluene-d8	98.5		0	80.1-116	%REC	255960	1	02/15/2018 23:18	OM
Total Phosphorus E365.1					**(E365.1)**				
Phosphorus, Total (As P)	0.052		0.009	0.050	mg/L	255735	1	02/13/2018 14:54	JM
Total Oil and Grease (HEM) E1664B					**(E1664)**				
Oil and Grease	BRL		2.3	5.4	mg/L	255863	1	02/15/2018 08:30	GR
Total Metals by ICP E200.7					**(E200.7)**				
Arsenic	BRL		0.0141	0.0500	mg/L	255784	1	02/14/2018 16:47	JR
Cadmium	BRL		0.0016	0.0050	mg/L	255784	1	02/14/2018 16:47	JR
Chromium	0.0106		0.0025	0.0100	mg/L	255784	1	02/14/2018 16:47	JR
Copper	BRL		0.0022	0.0250	mg/L	255784	1	02/14/2018 16:47	JR
Iron	1.03		0.0258	0.100	mg/L	255784	1	02/14/2018 16:47	JR
Lead	BRL		0.0028	0.0100	mg/L	255784	1	02/14/2018 16:47	JR
Magnesium	14.4		0.0267	5.00	mg/L	255784	1	02/14/2018 16:47	JR
Manganese	0.0846		0.0013	0.0150	mg/L	255784	1	02/14/2018 16:47	JR

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-005	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP E200.7					**(E200.7)**				
Molybdenum	BRL		0.0126	0.0340	mg/L	255784	1	02/14/2018 16:47	JR
Nickel	BRL		0.0047	0.0200	mg/L	255784	1	02/14/2018 16:47	JR
Selenium	BRL		0.0088	0.0200	mg/L	255784	1	02/14/2018 16:47	JR
Silver	BRL		0.0013	0.0050	mg/L	255784	1	02/14/2018 16:47	JR
Zinc	BRL		0.0057	0.0500	mg/L	255784	1	02/14/2018 16:47	JR
Total Mercury E245.1					**(E245.1)**				
Mercury	BRL		0.00006	0.00020	mg/L	255763	1	02/14/2018 02:00	AS
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**				
Cyanide, Total	BRL		0.005	0.010	mg/L	255910	1	02/16/2018 09:30	AK
Residue, Suspended (TSS) by SM2540D									
Residue, Suspended (TSS)	33.5		1.0	5.0	mg/L	255933	1	02/15/2018 15:25	AA
Residue, Dissolved (TDS) by SM2540C									
Residue, Dissolved (TDS)	236		5	10	mg/L	255850	1	02/14/2018 16:00	BD
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
1,2,4-Trichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:01	YH
1,2-Dichlorobenzene	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:01	YH
1,2-Diphenylhydrazine	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:01	YH
1,3-Dichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:01	YH
1,4-Dichlorobenzene	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:01	YH
2,4,6-Trichlorophenol	BRL		2.4	10	ug/L	255879	1	02/15/2018 20:01	YH
2,4-Dichlorophenol	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:01	YH
2,4-Dimethylphenol	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:01	YH
2,4-Dinitrophenol	BRL		3.9	25	ug/L	255879	1	02/15/2018 20:01	YH
2,4-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:01	YH
2,6-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:01	YH
2-Chloronaphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:01	YH
2-Chlorophenol	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:01	YH
2-Nitrophenol	BRL		4.8	10	ug/L	255879	1	02/15/2018 20:01	YH
3,3´-Dichlorobenzidine	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:01	YH
4,6-Dinitro-2-methylphenol	BRL		4.4	20	ug/L	255879	1	02/15/2018 20:01	YH
4-Bromophenyl phenyl ether	BRL		2.3	10	ug/L	255879	1	02/15/2018 20:01	YH
4-Chloro-3-methylphenol	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:01	YH
4-Chlorophenyl phenyl ether	BRL		0.73	10	ug/L	255879	1	02/15/2018 20:01	YH
4-Nitrophenol	BRL		4.2	25	ug/L	255879	1	02/15/2018 20:01	YH
Acenaphthene	BRL		0.86	10	ug/L	255879	1	02/15/2018 20:01	YH

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-005	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
Acenaphthylene	BRL		0.87	10	ug/L	255879	1	02/15/2018 20:01	YH
Anthracene	BRL		1.1	10	ug/L	255879	1	02/15/2018 20:01	YH
Benz(a)anthracene	BRL		0.95	10	ug/L	255879	1	02/15/2018 20:01	YH
Benzidine	BRL		78	80	ug/L	255879	1	02/15/2018 20:01	YH
Benzo(a)pyrene	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:01	YH
Benzo(b)fluoranthene	BRL		0.91	10	ug/L	255879	1	02/15/2018 20:01	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:01	YH
Benzo(k)fluoranthene	BRL		0.45	10	ug/L	255879	1	02/15/2018 20:01	YH
Bis(2-chloroethoxy)methane	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:01	YH
Bis(2-chloroethyl)ether	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:01	YH
Bis(2-chloroisopropyl)ether	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:01	YH
Bis(2-ethylhexyl)phthalate	BRL		0.69	10	ug/L	255879	1	02/15/2018 20:01	YH
Butyl benzyl phthalate	BRL		0.73	10	ug/L	255879	1	02/15/2018 20:01	YH
Chrysene	BRL		0.67	10	ug/L	255879	1	02/15/2018 20:01	YH
Di-n-butyl phthalate	BRL		0.67	10	ug/L	255879	1	02/15/2018 20:01	YH
Di-n-octyl phthalate	BRL		0.70	10	ug/L	255879	1	02/15/2018 20:01	YH
Dibenz(a,h)anthracene	BRL		0.66	10	ug/L	255879	1	02/15/2018 20:01	YH
Diethyl phthalate	BRL		0.79	10	ug/L	255879	1	02/15/2018 20:01	YH
Dimethyl phthalate	BRL		0.86	10	ug/L	255879	1	02/15/2018 20:01	YH
Fluoranthene	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:01	YH
Fluorene	BRL		1.4	10	ug/L	255879	1	02/15/2018 20:01	YH
Hexachlorobenzene	BRL		2.4	10	ug/L	255879	1	02/15/2018 20:01	YH
Hexachlorobutadiene	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:01	YH
Hexachlorocyclopentadiene	BRL		4.8	10	ug/L	255879	1	02/15/2018 20:01	YH
Hexachloroethane	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:01	YH
Indeno(1,2,3-cd)pyrene	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:01	YH
Isophorone	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:01	YH
N-Nitrosodi-n-propylamine	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:01	YH
N-Nitrosodimethylamine	BRL		2.5	10	ug/L	255879	1	02/15/2018 20:01	YH
N-Nitrosodiphenylamine	BRL		0.97	10	ug/L	255879	1	02/15/2018 20:01	YH
Naphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:01	YH
Nitrobenzene	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:01	YH
Pentachlorophenol	BRL		4.7	25	ug/L	255879	1	02/15/2018 20:01	YH
Phenanthrene	BRL		0.60	10	ug/L	255879	1	02/15/2018 20:01	YH
Phenol	BRL		1.1	10	ug/L	255879	1	02/15/2018 20:01	YH
Pyrene	BRL		0.96	10	ug/L	255879	1	02/15/2018 20:01	YH
Surr: 2,4,6-Tribromophenol	71.9		0	51.4-138	%REC	255879	1	02/15/2018 20:01	YH
Surr: 2-Fluorobiphenyl	66.1		0	44.6-119	%REC	255879	1	02/15/2018 20:01	YH
Surr: 2-Fluorophenol	57		0	27.2-120	%REC	255879	1	02/15/2018 20:01	YH

Qualifiers:

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- N Analyte not NELAC certified
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- 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:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-005	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
Surr: 4-Terphenyl-d14	92.2		0	47.1-136	%REC	255879	1	02/15/2018 20:01	YH
Surr: Nitrobenzene-d5	58.6		0	40.7-119	%REC	255879	1	02/15/2018 20:01	YH
Surr: Phenol-d5	47		0	18.1-120	%REC	255879	1	02/15/2018 20:01	YH
NITROGEN, TOTAL SM4500-N									
Nitrogen, Total	0.9		0.5	0.5	mg/L	R363097	1	02/15/2018 00:00	TL
METALS, DISSOLVED E200.7					**(E200.7)**				
Iron	BRL		0.0258	0.100	mg/L	255694	1	02/14/2018 15:31	JR
Manganese	0.0528		0.0013	0.0150	mg/L	255694	1	02/14/2018 15:31	JR
Hydrogen Ion (pH) by SM4500 H+ B									
pH	7.17	H	0.0100	0.0100	pH Units	R362855	1	02/13/2018 13:00	BD
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
4,4´-DDD	BRL		0.016	0.20	ug/L	255744	1	02/14/2018 22:38	RS
4,4´-DDE	BRL		0.024	0.20	ug/L	255744	1	02/14/2018 22:38	RS
4,4´-DDT	BRL		0.026	0.20	ug/L	255744	1	02/14/2018 22:38	RS
Aldrin	BRL		0.030	0.10	ug/L	255744	1	02/14/2018 22:38	RS
alpha-BHC	BRL		0.018	0.10	ug/L	255744	1	02/14/2018 22:38	RS
Aroclor 1016	BRL		0.082	1.0	ug/L	255744	1	02/14/2018 22:38	RS
Aroclor 1221	BRL		0.13	1.0	ug/L	255744	1	02/14/2018 22:38	RS
Aroclor 1232	BRL		0.093	1.0	ug/L	255744	1	02/14/2018 22:38	RS
Aroclor 1242	BRL		0.10	1.0	ug/L	255744	1	02/14/2018 22:38	RS
Aroclor 1248	BRL		0.079	1.0	ug/L	255744	1	02/14/2018 22:38	RS
Aroclor 1254	BRL		0.17	1.0	ug/L	255744	1	02/14/2018 22:38	RS
Aroclor 1260	BRL		0.036	1.0	ug/L	255744	1	02/14/2018 22:38	RS
beta-BHC	BRL		0.015	0.10	ug/L	255744	1	02/14/2018 22:38	RS
Chlordane	BRL		0.074	0.50	ug/L	255744	1	02/14/2018 22:38	RS
delta-BHC	BRL		0.014	0.10	ug/L	255744	1	02/14/2018 22:38	RS
Dieldrin	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:38	RS
Endosulfan I	BRL		0.020	0.50	ug/L	255744	1	02/14/2018 22:38	RS
Endosulfan II	BRL		0.022	0.50	ug/L	255744	1	02/14/2018 22:38	RS
Endosulfan sulfate	BRL		0.018	0.50	ug/L	255744	1	02/14/2018 22:38	RS
Endrin	BRL		0.019	0.20	ug/L	255744	1	02/14/2018 22:38	RS
Endrin aldehyde	BRL		0.015	0.20	ug/L	255744	1	02/14/2018 22:38	RS
gamma-BHC	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:38	RS
Heptachlor	BRL		0.026	0.10	ug/L	255744	1	02/14/2018 22:38	RS
Heptachlor epoxide	BRL		0.024	0.10	ug/L	255744	1	02/14/2018 22:38	RS

Qualifiers:

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	INF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-005	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
Methoxychlor	BRL		0.057	0.30	ug/L	255744	1	02/14/2018 22:38	RS
Toxaphene	BRL		0.21	2.0	ug/L	255744	1	02/14/2018 22:38	RS
Surr: Decachlorobiphenyl	78.6		0	15.5-120	%REC	255744	1	02/14/2018 22:38	RS
Surr: Tetrachloro-m-xylene	86.3		0	23.1-135	%REC	255744	1	02/14/2018 22:38	RS
Biochemical Oxygen Demand by SM5210B									
Biochemical Oxygen Demand	BRL	H	5.0	5.0	mg/L	255787	1	02/14/2018 10:00	EA
Alkalinity by SM2320B									
Alkalinity, Total (As CaCO3)	150		8.40	15.0	mg/L	R363296	5	02/16/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-006	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/16/2018 17:36	CC
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 17:36	CC
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 17:36	CC
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/16/2018 17:36	CC
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/16/2018 17:36	CC
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/16/2018 17:36	CC
Acetone	BRL		3.6	50	ug/L	255960	1	02/16/2018 17:36	CC
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/16/2018 17:36	CC
cis-1,2-Dichloroethene	12		0.28	5.0	ug/L	255960	1	02/16/2018 17:36	CC
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/16/2018 17:36	CC
Freon-113	BRL		0.32	10	ug/L	255960	1	02/16/2018 17:36	CC
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 17:36	CC
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/16/2018 17:36	CC
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/16/2018 17:36	CC
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/16/2018 17:36	CC
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/16/2018 17:36	CC
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/16/2018 17:36	CC
Surr: 4-Bromofluorobenzene	96.2		0	68-127	%REC	255960	1	02/16/2018 17:36	CC
Surr: Dibromofluoromethane	98.4		0	84.4-122	%REC	255960	1	02/16/2018 17:36	CC
Surr: Toluene-d8	96.5		0	80.1-116	%REC	255960	1	02/16/2018 17:36	CC
Total Phosphorus E365.1					**(E365.1)**				
Phosphorus, Total (As P)	BRL		0.009	0.050	mg/L	255735	1	02/13/2018 14:49	JM
Total Oil and Grease (HEM) E1664B					**(E1664)**				
Oil and Grease	BRL		2.1	5.0	mg/L	255863	1	02/15/2018 08:30	GR
Total Metals by ICP E200.7					**(E200.7)**				
Arsenic	BRL		0.0141	0.0500	mg/L	255784	1	02/14/2018 16:30	JR
Cadmium	0.0062		0.0016	0.0050	mg/L	255784	1	02/14/2018 16:30	JR
Chromium	0.0144		0.0025	0.0100	mg/L	255784	1	02/14/2018 16:30	JR
Copper	BRL		0.0022	0.0250	mg/L	255784	1	02/14/2018 16:30	JR
Iron	1.04		0.0258	0.100	mg/L	255784	1	02/14/2018 16:30	JR
Lead	BRL		0.0028	0.0100	mg/L	255784	1	02/14/2018 16:30	JR
Magnesium	14.6		0.0267	5.00	mg/L	255784	1	02/14/2018 16:30	JR
Manganese	0.0878		0.0013	0.0150	mg/L	255784	1	02/14/2018 16:30	JR
Molybdenum	BRL		0.0126	0.0340	mg/L	255784	1	02/14/2018 16:30	JR
Nickel	BRL		0.0047	0.0200	mg/L	255784	1	02/14/2018 16:30	JR
Selenium	BRL		0.0088	0.0200	mg/L	255784	1	02/14/2018 16:30	JR

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-006	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Total Metals by ICP E200.7					**(E200.7)**				
Silver	BRL		0.0013	0.0050	mg/L	255784	1	02/14/2018 16:30	JR
Zinc	BRL		0.0057	0.0500	mg/L	255784	1	02/14/2018 16:30	JR
Total Mercury E245.1					**(E245.1)**				
Mercury	BRL		0.00006	0.00020	mg/L	255763	1	02/14/2018 02:04	AS
Total Cyanide (SM4500 CN-C, E)					**(SM4500-CN-E)**				
Cyanide, Total	BRL		0.005	0.010	mg/L	255910	1	02/16/2018 09:30	AK
Residue, Suspended (TSS) by SM2540D									
Residue, Suspended (TSS)	24.0		1.0	5.0	mg/L	255950	1	02/16/2018 13:10	AA
Residue, Dissolved (TDS) by SM2540C									
Residue, Dissolved (TDS)	233		5	10	mg/L	255850	1	02/14/2018 16:00	BD
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
1,2,4-Trichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:27	YH
1,2-Dichlorobenzene	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:27	YH
1,2-Diphenylhydrazine	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:27	YH
1,3-Dichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:27	YH
1,4-Dichlorobenzene	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:27	YH
2,4,6-Trichlorophenol	BRL		2.4	10	ug/L	255879	1	02/15/2018 20:27	YH
2,4-Dichlorophenol	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:27	YH
2,4-Dimethylphenol	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:27	YH
2,4-Dinitrophenol	BRL		3.9	25	ug/L	255879	1	02/15/2018 20:27	YH
2,4-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:27	YH
2,6-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:27	YH
2-Chloronaphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:27	YH
2-Chlorophenol	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:27	YH
2-Nitrophenol	BRL		4.8	10	ug/L	255879	1	02/15/2018 20:27	YH
3,3´-Dichlorobenzidine	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:27	YH
4,6-Dinitro-2-methylphenol	BRL		4.4	20	ug/L	255879	1	02/15/2018 20:27	YH
4-Bromophenyl phenyl ether	BRL		2.3	10	ug/L	255879	1	02/15/2018 20:27	YH
4-Chloro-3-methylphenol	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:27	YH
4-Chlorophenyl phenyl ether	BRL		0.73	10	ug/L	255879	1	02/15/2018 20:27	YH
4-Nitrophenol	BRL		4.2	25	ug/L	255879	1	02/15/2018 20:27	YH
Acenaphthene	BRL		0.86	10	ug/L	255879	1	02/15/2018 20:27	YH
Acenaphthylene	BRL		0.87	10	ug/L	255879	1	02/15/2018 20:27	YH
Anthracene	BRL		1.1	10	ug/L	255879	1	02/15/2018 20:27	YH
Benz(a)anthracene	BRL		0.95	10	ug/L	255879	1	02/15/2018 20:27	YH

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-006	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
Benzidine	BRL		78	80	ug/L	255879	1	02/15/2018 20:27	YH
Benzo(a)pyrene	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:27	YH
Benzo(b)fluoranthene	BRL		0.91	10	ug/L	255879	1	02/15/2018 20:27	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:27	YH
Benzo(k)fluoranthene	BRL		0.45	10	ug/L	255879	1	02/15/2018 20:27	YH
Bis(2-chloroethoxy)methane	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:27	YH
Bis(2-chloroethyl)ether	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:27	YH
Bis(2-chloroisopropyl)ether	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:27	YH
Bis(2-ethylhexyl)phthalate	BRL		0.69	10	ug/L	255879	1	02/15/2018 20:27	YH
Butyl benzyl phthalate	BRL		0.73	10	ug/L	255879	1	02/15/2018 20:27	YH
Chrysene	BRL		0.67	10	ug/L	255879	1	02/15/2018 20:27	YH
Di-n-butyl phthalate	BRL		0.67	10	ug/L	255879	1	02/15/2018 20:27	YH
Di-n-octyl phthalate	BRL		0.70	10	ug/L	255879	1	02/15/2018 20:27	YH
Dibenz(a,h)anthracene	BRL		0.66	10	ug/L	255879	1	02/15/2018 20:27	YH
Diethyl phthalate	BRL		0.79	10	ug/L	255879	1	02/15/2018 20:27	YH
Dimethyl phthalate	BRL		0.86	10	ug/L	255879	1	02/15/2018 20:27	YH
Fluoranthene	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:27	YH
Fluorene	BRL		1.4	10	ug/L	255879	1	02/15/2018 20:27	YH
Hexachlorobenzene	BRL		2.4	10	ug/L	255879	1	02/15/2018 20:27	YH
Hexachlorobutadiene	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:27	YH
Hexachlorocyclopentadiene	BRL		4.8	10	ug/L	255879	1	02/15/2018 20:27	YH
Hexachloroethane	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:27	YH
Indeno(1,2,3-cd)pyrene	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:27	YH
Isophorone	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:27	YH
N-Nitrosodi-n-propylamine	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:27	YH
N-Nitrosodimethylamine	BRL		2.5	10	ug/L	255879	1	02/15/2018 20:27	YH
N-Nitrosodiphenylamine	BRL		0.97	10	ug/L	255879	1	02/15/2018 20:27	YH
Naphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:27	YH
Nitrobenzene	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:27	YH
Pentachlorophenol	BRL		4.7	25	ug/L	255879	1	02/15/2018 20:27	YH
Phenanthrene	BRL		0.60	10	ug/L	255879	1	02/15/2018 20:27	YH
Phenol	BRL		1.1	10	ug/L	255879	1	02/15/2018 20:27	YH
Pyrene	BRL		0.96	10	ug/L	255879	1	02/15/2018 20:27	YH
Surr: 2,4,6-Tribromophenol	81.5		0	51.4-138	%REC	255879	1	02/15/2018 20:27	YH
Surr: 2-Fluorobiphenyl	88.3		0	44.6-119	%REC	255879	1	02/15/2018 20:27	YH
Surr: 2-Fluorophenol	55.8		0	27.2-120	%REC	255879	1	02/15/2018 20:27	YH
Surr: 4-Terphenyl-d14	98		0	47.1-136	%REC	255879	1	02/15/2018 20:27	YH
Surr: Nitrobenzene-d5	80.5		0	40.7-119	%REC	255879	1	02/15/2018 20:27	YH
Surr: Phenol-d5	36.7		0	18.1-120	%REC	255879	1	02/15/2018 20:27	YH

Qualifiers:

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- 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:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-006	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
NITROGEN, TOTAL SM4500-N									
Nitrogen, Total	0.9		0.5	0.5	mg/L	R363097	1	02/15/2018 00:00	TL
METALS, DISSOLVED E200.7					**(E200.7)**				
Iron	BRL		0.0258	0.100	mg/L	255694	1	02/14/2018 14:52	JR
Manganese	0.0512		0.0013	0.0150	mg/L	255694	1	02/14/2018 14:52	JR
Hydrogen Ion (pH) by SM4500 H+ B									
pH	8.04	H	0.0100	0.0100	pH Units	R362855	1	02/13/2018 13:00	BD
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
4,4´-DDD	BRL		0.016	0.20	ug/L	255744	1	02/14/2018 22:49	RS
4,4´-DDE	BRL		0.024	0.20	ug/L	255744	1	02/14/2018 22:49	RS
4,4´-DDT	BRL		0.026	0.20	ug/L	255744	1	02/14/2018 22:49	RS
Aldrin	BRL		0.030	0.10	ug/L	255744	1	02/14/2018 22:49	RS
alpha-BHC	BRL		0.018	0.10	ug/L	255744	1	02/14/2018 22:49	RS
Aroclor 1016	BRL		0.082	1.0	ug/L	255744	1	02/14/2018 22:49	RS
Aroclor 1221	BRL		0.13	1.0	ug/L	255744	1	02/14/2018 22:49	RS
Aroclor 1232	BRL		0.093	1.0	ug/L	255744	1	02/14/2018 22:49	RS
Aroclor 1242	BRL		0.10	1.0	ug/L	255744	1	02/14/2018 22:49	RS
Aroclor 1248	BRL		0.079	1.0	ug/L	255744	1	02/14/2018 22:49	RS
Aroclor 1254	BRL		0.17	1.0	ug/L	255744	1	02/14/2018 22:49	RS
Aroclor 1260	BRL		0.036	1.0	ug/L	255744	1	02/14/2018 22:49	RS
beta-BHC	BRL		0.015	0.10	ug/L	255744	1	02/14/2018 22:49	RS
Chlordane	BRL		0.074	0.50	ug/L	255744	1	02/14/2018 22:49	RS
delta-BHC	BRL		0.014	0.10	ug/L	255744	1	02/14/2018 22:49	RS
Dieldrin	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:49	RS
Endosulfan I	BRL		0.020	0.50	ug/L	255744	1	02/14/2018 22:49	RS
Endosulfan II	BRL		0.022	0.50	ug/L	255744	1	02/14/2018 22:49	RS
Endosulfan sulfate	BRL		0.018	0.50	ug/L	255744	1	02/14/2018 22:49	RS
Endrin	BRL		0.019	0.20	ug/L	255744	1	02/14/2018 22:49	RS
Endrin aldehyde	BRL		0.015	0.20	ug/L	255744	1	02/14/2018 22:49	RS
gamma-BHC	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 22:49	RS
Heptachlor	BRL		0.026	0.10	ug/L	255744	1	02/14/2018 22:49	RS
Heptachlor epoxide	BRL		0.024	0.10	ug/L	255744	1	02/14/2018 22:49	RS
Methoxychlor	BRL		0.057	0.30	ug/L	255744	1	02/14/2018 22:49	RS
Toxaphene	BRL		0.21	2.0	ug/L	255744	1	02/14/2018 22:49	RS
Surr: Decachlorobiphenyl	79.1		0	15.5-120	%REC	255744	1	02/14/2018 22:49	RS
Surr: Tetrachloro-m-xylene	76.1		0	23.1-135	%REC	255744	1	02/14/2018 22:49	RS

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	EFF 3
Project Name:	FMTC	**Collection Date:**	2/9/2018 12:15:00 PM
Lab ID:	1802A08-006	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Biochemical Oxygen Demand by SM5210B									
Biochemical Oxygen Demand	BRL	H	5.0	5.0	mg/L	255787	1	02/14/2018 10:00	EA
Alkalinity by SM2320B									
Alkalinity, Total (As CaCO3)	145		8.40	15.0	mg/L	R363296	5	02/16/2018 14:00	AK

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TANK
Project Name:	FMTC	**Collection Date:**	2/10/2018 5:00:00 PM
Lab ID:	1802A08-007	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					**(SW5030B)**				
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/16/2018 01:27	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 01:27	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 01:27	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/16/2018 01:27	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/16/2018 01:27	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/16/2018 01:27	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/16/2018 01:27	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/16/2018 01:27	OM
cis-1,2-Dichloroethene	37		0.28	5.0	ug/L	255960	1	02/16/2018 01:27	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/16/2018 01:27	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/16/2018 01:27	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/16/2018 01:27	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/16/2018 01:27	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/16/2018 01:27	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/16/2018 01:27	OM
Trichloroethene	6.0		0.30	5.0	ug/L	255960	1	02/16/2018 01:27	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/16/2018 01:27	OM
Surr: 4-Bromofluorobenzene	100		0	68-127	%REC	255960	1	02/16/2018 01:27	OM
Surr: Dibromofluoromethane	104		0	84.4-122	%REC	255960	1	02/16/2018 01:27	OM
Surr: Toluene-d8	99.9		0	80.1-116	%REC	255960	1	02/16/2018 01:27	OM
Residue, Suspended (TSS) by SM2540D									
Residue, Suspended (TSS)	5.0		1.0	5.0	mg/L	255950	1	02/16/2018 13:11	AA
Residue, Dissolved (TDS) by SM2540C									
Residue, Dissolved (TDS)	241		5	10	mg/L	255850	1	02/14/2018 16:00	BD
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
1,2,4-Trichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:52	YH
1,2-Dichlorobenzene	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:52	YH
1,2-Diphenylhydrazine	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:52	YH
1,3-Dichlorobenzene	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:52	YH
1,4-Dichlorobenzene	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:52	YH
2,4,6-Trichlorophenol	BRL		2.4	10	ug/L	255879	1	02/15/2018 20:52	YH
2,4-Dichlorophenol	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:52	YH
2,4-Dimethylphenol	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:52	YH
2,4-Dinitrophenol	BRL		3.9	25	ug/L	255879	1	02/15/2018 20:52	YH
2,4-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:52	YH
2,6-Dinitrotoluene	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:52	YH

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TANK
Project Name:	FMTC	**Collection Date:**	2/10/2018 5:00:00 PM
Lab ID:	1802A08-007	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
2-Chloronaphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:52	YH
2-Chlorophenol	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:52	YH
2-Nitrophenol	BRL		4.8	10	ug/L	255879	1	02/15/2018 20:52	YH
3,3´-Dichlorobenzidine	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:52	YH
4,6-Dinitro-2-methylphenol	BRL		4.4	20	ug/L	255879	1	02/15/2018 20:52	YH
4-Bromophenyl phenyl ether	BRL		2.3	10	ug/L	255879	1	02/15/2018 20:52	YH
4-Chloro-3-methylphenol	BRL		1.7	10	ug/L	255879	1	02/15/2018 20:52	YH
4-Chlorophenyl phenyl ether	BRL		0.73	10	ug/L	255879	1	02/15/2018 20:52	YH
4-Nitrophenol	BRL		4.2	25	ug/L	255879	1	02/15/2018 20:52	YH
Acenaphthene	BRL		0.86	10	ug/L	255879	1	02/15/2018 20:52	YH
Acenaphthylene	BRL		0.87	10	ug/L	255879	1	02/15/2018 20:52	YH
Anthracene	BRL		1.1	10	ug/L	255879	1	02/15/2018 20:52	YH
Benz(a)anthracene	BRL		0.95	10	ug/L	255879	1	02/15/2018 20:52	YH
Benzidine	BRL		78	80	ug/L	255879	1	02/15/2018 20:52	YH
Benzo(a)pyrene	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:52	YH
Benzo(b)fluoranthene	BRL		0.91	10	ug/L	255879	1	02/15/2018 20:52	YH
Benzo(g,h,i)perylene	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:52	YH
Benzo(k)fluoranthene	BRL		0.45	10	ug/L	255879	1	02/15/2018 20:52	YH
Bis(2-chloroethoxy)methane	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:52	YH
Bis(2-chloroethyl)ether	BRL		1.5	10	ug/L	255879	1	02/15/2018 20:52	YH
Bis(2-chloroisopropyl)ether	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:52	YH
Bis(2-ethylhexyl)phthalate	BRL		0.69	10	ug/L	255879	1	02/15/2018 20:52	YH
Butyl benzyl phthalate	BRL		0.73	10	ug/L	255879	1	02/15/2018 20:52	YH
Chrysene	BRL		0.67	10	ug/L	255879	1	02/15/2018 20:52	YH
Di-n-butyl phthalate	BRL		0.67	10	ug/L	255879	1	02/15/2018 20:52	YH
Di-n-octyl phthalate	BRL		0.70	10	ug/L	255879	1	02/15/2018 20:52	YH
Dibenz(a,h)anthracene	BRL		0.66	10	ug/L	255879	1	02/15/2018 20:52	YH
Diethyl phthalate	BRL		0.79	10	ug/L	255879	1	02/15/2018 20:52	YH
Dimethyl phthalate	BRL		0.86	10	ug/L	255879	1	02/15/2018 20:52	YH
Fluoranthene	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:52	YH
Fluorene	BRL		1.4	10	ug/L	255879	1	02/15/2018 20:52	YH
Hexachlorobenzene	BRL		2.4	10	ug/L	255879	1	02/15/2018 20:52	YH
Hexachlorobutadiene	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:52	YH
Hexachlorocyclopentadiene	BRL		4.8	10	ug/L	255879	1	02/15/2018 20:52	YH
Hexachloroethane	BRL		2.0	10	ug/L	255879	1	02/15/2018 20:52	YH
Indeno(1,2,3-cd)pyrene	BRL		1.0	10	ug/L	255879	1	02/15/2018 20:52	YH
Isophorone	BRL		1.2	10	ug/L	255879	1	02/15/2018 20:52	YH
N-Nitrosodi-n-propylamine	BRL		0.76	10	ug/L	255879	1	02/15/2018 20:52	YH
N-Nitrosodimethylamine	BRL		2.5	10	ug/L	255879	1	02/15/2018 20:52	YH

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Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TANK
Project Name:	FMTC	**Collection Date:**	2/10/2018 5:00:00 PM
Lab ID:	1802A08-007	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625					**(E625)**				
N-Nitrosodiphenylamine	BRL		0.97	10	ug/L	255879	1	02/15/2018 20:52	YH
Naphthalene	BRL		1.6	10	ug/L	255879	1	02/15/2018 20:52	YH
Nitrobenzene	BRL		1.9	10	ug/L	255879	1	02/15/2018 20:52	YH
Pentachlorophenol	BRL		4.7	25	ug/L	255879	1	02/15/2018 20:52	YH
Phenanthrene	BRL		0.60	10	ug/L	255879	1	02/15/2018 20:52	YH
Phenol	BRL		1.1	10	ug/L	255879	1	02/15/2018 20:52	YH
Pyrene	BRL		0.96	10	ug/L	255879	1	02/15/2018 20:52	YH
Surr: 2,4,6-Tribromophenol	81.7		0	51.4-138	%REC	255879	1	02/15/2018 20:52	YH
Surr: 2-Fluorobiphenyl	85.8		0	44.6-119	%REC	255879	1	02/15/2018 20:52	YH
Surr: 2-Fluorophenol	72.5		0	27.2-120	%REC	255879	1	02/15/2018 20:52	YH
Surr: 4-Terphenyl-d14	96.7		0	47.1-136	%REC	255879	1	02/15/2018 20:52	YH
Surr: Nitrobenzene-d5	75		0	40.7-119	%REC	255879	1	02/15/2018 20:52	YH
Surr: Phenol-d5	55.7		0	18.1-120	%REC	255879	1	02/15/2018 20:52	YH
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
4,4´-DDD	BRL		0.016	0.20	ug/L	255744	1	02/14/2018 23:01	RS
4,4´-DDE	BRL		0.024	0.20	ug/L	255744	1	02/14/2018 23:01	RS
4,4´-DDT	BRL		0.026	0.20	ug/L	255744	1	02/14/2018 23:01	RS
Aldrin	BRL		0.030	0.10	ug/L	255744	1	02/14/2018 23:01	RS
alpha-BHC	BRL		0.018	0.10	ug/L	255744	1	02/14/2018 23:01	RS
Aroclor 1016	BRL		0.082	1.0	ug/L	255744	1	02/14/2018 23:01	RS
Aroclor 1221	BRL		0.13	1.0	ug/L	255744	1	02/14/2018 23:01	RS
Aroclor 1232	BRL		0.093	1.0	ug/L	255744	1	02/14/2018 23:01	RS
Aroclor 1242	BRL		0.10	1.0	ug/L	255744	1	02/14/2018 23:01	RS
Aroclor 1248	BRL		0.079	1.0	ug/L	255744	1	02/14/2018 23:01	RS
Aroclor 1254	BRL		0.17	1.0	ug/L	255744	1	02/14/2018 23:01	RS
Aroclor 1260	BRL		0.036	1.0	ug/L	255744	1	02/14/2018 23:01	RS
beta-BHC	BRL		0.015	0.10	ug/L	255744	1	02/14/2018 23:01	RS
Chlordane	BRL		0.074	0.50	ug/L	255744	1	02/14/2018 23:01	RS
delta-BHC	BRL		0.014	0.10	ug/L	255744	1	02/14/2018 23:01	RS
Dieldrin	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 23:01	RS
Endosulfan I	BRL		0.020	0.50	ug/L	255744	1	02/14/2018 23:01	RS
Endosulfan II	BRL		0.022	0.50	ug/L	255744	1	02/14/2018 23:01	RS
Endosulfan sulfate	BRL		0.018	0.50	ug/L	255744	1	02/14/2018 23:01	RS
Endrin	BRL		0.019	0.20	ug/L	255744	1	02/14/2018 23:01	RS
Endrin aldehyde	BRL		0.015	0.20	ug/L	255744	1	02/14/2018 23:01	RS
gamma-BHC	BRL		0.017	0.10	ug/L	255744	1	02/14/2018 23:01	RS
Heptachlor	BRL		0.026	0.10	ug/L	255744	1	02/14/2018 23:01	RS
Heptachlor epoxide	BRL		0.024	0.10	ug/L	255744	1	02/14/2018 23:01	RS

Qualifiers:

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- 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:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TANK
Project Name:	FMTC	**Collection Date:**	2/10/2018 5:00:00 PM
Lab ID:	1802A08-007	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
CHLORINATED PESTICIDES/PCBs BY E608/E608.2					**(E608)**				
Methoxychlor	BRL		0.057	0.30	ug/L	255744	1	02/14/2018 23:01	RS
Toxaphene	BRL		0.21	2.0	ug/L	255744	1	02/14/2018 23:01	RS
Surr: Decachlorobiphenyl	81.1		0	15.5-120	%REC	255744	1	02/14/2018 23:01	RS
Surr: Tetrachloro-m-xylene	58.2		0	23.1-135	%REC	255744	1	02/14/2018 23:01	RS
Biochemical Oxygen Demand by SM5210B									
Biochemical Oxygen Demand	BRL	H	5.0	5.0	mg/L	255787	1	02/14/2018 10:00	EA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TRIP BLANK 1
Project Name:	FMTC	**Collection Date:**	2/10/2018
Lab ID:	1802A08-008	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 21:08	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 21:08	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 21:08	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/15/2018 21:08	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 21:08	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 21:08	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 21:08	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 21:08	OM
cis-1,2-Dichloroethene	BRL		0.28	5.0	ug/L	255960	1	02/15/2018 21:08	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 21:08	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 21:08	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 21:08	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 21:08	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 21:08	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 21:08	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 21:08	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/15/2018 21:08	OM
Surr: 4-Bromofluorobenzene	101		0	68-127	%REC	255960	1	02/15/2018 21:08	OM
Surr: Dibromofluoromethane	103		0	84.4-122	%REC	255960	1	02/15/2018 21:08	OM
Surr: Toluene-d8	100		0	80.1-116	%REC	255960	1	02/15/2018 21:08	OM

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated value above quantitation range
BRL Not detected at MDL	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	J Estimated value detected below Reporting Limit
N Analyte not NELAC certified	> Greater than Result value
B Analyte detected in the associated method blank	< Less than Result value
NC Not confirmed	Narr See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TRIP BLANK 2
Project Name:	FMTC	**Collection Date:**	2/10/2018
Lab ID:	1802A08-009	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 21:35	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 21:35	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 21:35	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/15/2018 21:35	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 21:35	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 21:35	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 21:35	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 21:35	OM
cis-1,2-Dichloroethene	BRL		0.28	5.0	ug/L	255960	1	02/15/2018 21:35	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 21:35	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 21:35	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 21:35	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 21:35	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 21:35	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 21:35	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 21:35	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/15/2018 21:35	OM
Surr: 4-Bromofluorobenzene	101		0	68-127	%REC	255960	1	02/15/2018 21:35	OM
Surr: Dibromofluoromethane	99.6		0	84.4-122	%REC	255960	1	02/15/2018 21:35	OM
Surr: Toluene-d8	99.3		0	80.1-116	%REC	255960	1	02/15/2018 21:35	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TRIP BLANK 3
Project Name:	FMTC	**Collection Date:**	2/10/2018
Lab ID:	1802A08-010	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 22:01	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:01	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:01	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/15/2018 22:01	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 22:01	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 22:01	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 22:01	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 22:01	OM
cis-1,2-Dichloroethene	BRL		0.28	5.0	ug/L	255960	1	02/15/2018 22:01	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 22:01	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 22:01	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 22:01	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 22:01	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 22:01	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 22:01	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 22:01	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/15/2018 22:01	OM
Surr: 4-Bromofluorobenzene	101		0	68-127	%REC	255960	1	02/15/2018 22:01	OM
Surr: Dibromofluoromethane	105		0	84.4-122	%REC	255960	1	02/15/2018 22:01	OM
Surr: Toluene-d8	101		0	80.1-116	%REC	255960	1	02/15/2018 22:01	OM

Qualifiers:

* Value exceeds maximum contaminant level	E Estimated value above quantitation range
BRL Not detected at MDL	S Spike Recovery outside limits due to matrix
H Holding times for preparation or analysis exceeded	J Estimated value detected below Reporting Limit
N Analyte not NELAC certified	> Greater than Result value
B Analyte detected in the associated method blank	< Less than Result value
NC Not confirmed	Narr See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TRIP BLANK 4
Project Name:	FMTC	**Collection Date:**	2/10/2018
Lab ID:	1802A08-011	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 19:25	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 19:25	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 19:25	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/15/2018 19:25	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 19:25	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 19:25	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 19:25	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 19:25	OM
cis-1,2-Dichloroethene	BRL		0.28	5.0	ug/L	255960	1	02/15/2018 19:25	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 19:25	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 19:25	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 19:25	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 19:25	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 19:25	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 19:25	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 19:25	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/15/2018 19:25	OM
Surr: 4-Bromofluorobenzene	99.9		0	68-127	%REC	255960	1	02/15/2018 19:25	OM
Surr: Dibromofluoromethane	102		0	84.4-122	%REC	255960	1	02/15/2018 19:25	OM
Surr: Toluene-d8	98.7		0	80.1-116	%REC	255960	1	02/15/2018 19:25	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TRIP BLANK 5
Project Name:	FMTC	**Collection Date:**	2/10/2018
Lab ID:	1802A08-012	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 19:51	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 19:51	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 19:51	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/15/2018 19:51	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 19:51	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 19:51	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 19:51	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 19:51	OM
cis-1,2-Dichloroethene	BRL		0.28	5.0	ug/L	255960	1	02/15/2018 19:51	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 19:51	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 19:51	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 19:51	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 19:51	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 19:51	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 19:51	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 19:51	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/15/2018 19:51	OM
Surr: 4-Bromofluorobenzene	100		0	68-127	%REC	255960	1	02/15/2018 19:51	OM
Surr: Dibromofluoromethane	103		0	84.4-122	%REC	255960	1	02/15/2018 19:51	OM
Surr: Toluene-d8	101		0	80.1-116	%REC	255960	1	02/15/2018 19:51	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TRIP BLANK 6
Project Name:	FMTC	**Collection Date:**	2/10/2018
Lab ID:	1802A08-013	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 20:17	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 20:17	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 20:17	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/15/2018 20:17	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 20:17	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 20:17	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 20:17	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 20:17	OM
cis-1,2-Dichloroethene	BRL		0.28	5.0	ug/L	255960	1	02/15/2018 20:17	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 20:17	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 20:17	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 20:17	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 20:17	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 20:17	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 20:17	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 20:17	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/15/2018 20:17	OM
Surr: 4-Bromofluorobenzene	100		0	68-127	%REC	255960	1	02/15/2018 20:17	OM
Surr: Dibromofluoromethane	104		0	84.4-122	%REC	255960	1	02/15/2018 20:17	OM
Surr: Toluene-d8	100		0	80.1-116	%REC	255960	1	02/15/2018 20:17	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

Analytical Environmental Services, Inc **Date:** 23-Feb-18

Client:	ELOHI Engineering	**Client Sample ID:**	TRIP BLANK 7
Project Name:	FMTC	**Collection Date:**	2/10/2018
Lab ID:	1802A08-014	**Matrix:**	Waste Water

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	DF	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B (SW5030B)									
1,1,1-Trichloroethane	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 20:42	OM
1,1,2-Trichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 20:42	OM
1,1-Dichloroethane	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 20:42	OM
1,1-Dichloroethene	BRL		0.40	5.0	ug/L	255960	1	02/15/2018 20:42	OM
1,2-Dichloroethane	BRL		0.37	5.0	ug/L	255960	1	02/15/2018 20:42	OM
2-Butanone	BRL		2.5	50	ug/L	255960	1	02/15/2018 20:42	OM
Acetone	BRL		3.6	50	ug/L	255960	1	02/15/2018 20:42	OM
Chloroform	BRL		0.20	5.0	ug/L	255960	1	02/15/2018 20:42	OM
cis-1,2-Dichloroethene	BRL		0.28	5.0	ug/L	255960	1	02/15/2018 20:42	OM
Ethylbenzene	BRL		0.26	5.0	ug/L	255960	1	02/15/2018 20:42	OM
Freon-113	BRL		0.32	10	ug/L	255960	1	02/15/2018 20:42	OM
Isopropylbenzene	BRL		0.43	5.0	ug/L	255960	1	02/15/2018 20:42	OM
Tetrachloroethene	BRL		0.46	5.0	ug/L	255960	1	02/15/2018 20:42	OM
Toluene	BRL		0.39	5.0	ug/L	255960	1	02/15/2018 20:42	OM
trans-1,2-Dichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 20:42	OM
Trichloroethene	BRL		0.30	5.0	ug/L	255960	1	02/15/2018 20:42	OM
Vinyl chloride	BRL		0.30	2.0	ug/L	255960	1	02/15/2018 20:42	OM
Xylenes, Total	BRL		0.77	5.0	ug/L	255960	1	02/15/2018 20:42	OM
Surr: 4-Bromofluorobenzene	101		0	68-127	%REC	255960	1	02/15/2018 20:42	OM
Surr: Dibromofluoromethane	105		0	84.4-122	%REC	255960	1	02/15/2018 20:42	OM
Surr: Toluene-d8	101		0	80.1-116	%REC	255960	1	02/15/2018 20:42	OM

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated value above quantitation range
BRL	Not detected at MDL	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	J	Estimated value detected below Reporting Limit
N	Analyte not NELAC certified	>	Greater than Result value
B	Analyte detected in the associated method blank	<	Less than Result value
NC	Not confirmed	Narr	See case narrative

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ANALYTICAL ENVIRONMENTAL SERVICES, INC. (AES)

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **ELOHI Engineering** AES Work Order Number: **1802A08**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other DROPBOX

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	◉	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	◉	○		
5.	Custody seals intact on shipping container?	○	○	◉		
6.	Temperature blanks present?	○	◉	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	◉	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	◉	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	◉	○	○		
10.	Sampler name and/or signature on COC?	◉	○	○		
11.	Were all samples received within holding time?	◉	○	○		
12.	TAT marked on the COC?	◉	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 0.7 °C Cooler 2 Temperature 1.3 °C Cooler 3 Temperature 1.1 °C Cooler 4 Temperature 0.7 °C

14. Cooler 5 Temperature 1.4 °C Cooler 6 Temperature 1.3 °C Cooler 7 Temperature 0.6 °C Cooler 8 Temperature ____ °C

15. Comments:

I certify that I have completed sections 1-15 (dated initials). TD 2/12/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	◉	○	○		
17.	Custody seals present on sample containers?	○	◉	○		
18.	Custody seals intact on sample containers?	○	○	◉		
19.	Do sample container labels match the COC?	○	◉	○	incomplete info ☐ illegible ☐ no label ■ other ☐	
20.	Are analyses requested indicated on the COC?	◉	○	○		
21.	Were all of the samples listed on the COC received?	◉	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	◉	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	◉	○	○		
24.	Were samples received in appropriate containers?	◉	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	◉	○	○		
26.	Were trip blanks submitted?	◉	○	○	listed on COC ☐ not listed on COC ■	

27. Comments:

I certify that I have completed sections 16-27 (dated initials). KR 2/12/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	◉	○	○		
29.	Containers meet preservation guidelines?	◉	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	◉		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). KR 2/12/18

Locked

Client: ELOHI Engineering
Project Name: FMTC
Lab Order: 1802A08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802A08-001A	INF 1	2/9/2018 10:15:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018
1802A08-001A	INF 1	2/9/2018 10:15:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/16/2018
1802A08-001B	INF 1	2/9/2018 10:15:00AM	Waste Water	PP-CL-Pesticides		2/13/2018 12:00:00PM	02/14/2018
1802A08-001B	INF 1	2/9/2018 10:15:00AM	Waste Water	PP-SEMIVOLATILE ORGANICS		2/15/2018 11:00:00AM	02/15/2018
1802A08-001C	INF 1	2/9/2018 10:15:00AM	Waste Water	Oil and Grease		2/13/2018 8:30:00AM	02/13/2018
1802A08-001D	INF 1	2/9/2018 10:15:00AM	Waste Water	Total Metals by ICP		2/13/2018 2:24:00PM	02/14/2018
1802A08-001D	INF 1	2/9/2018 10:15:00AM	Waste Water	TOTAL MERCURY		2/13/2018 7:31:00PM	02/14/2018
1802A08-001E	INF 1	2/9/2018 10:15:00AM	Waste Water	METALS, DISSOLVED		2/14/2018 10:45:00AM	02/14/2018
1802A08-001F	INF 1	2/9/2018 10:15:00AM	Waste Water	Residue, Dissolved (TDS) by SM2540C		2/14/2018 4:00:00PM	02/14/2018
1802A08-001F	INF 1	2/9/2018 10:15:00AM	Waste Water	Residue, Suspended (TSS) by SM2540D		2/15/2018 1:17:00PM	02/15/2018
1802A08-001G	INF 1	2/9/2018 10:15:00AM	Waste Water	Alkalinity by SM2320B			02/15/2018
1802A08-001G	INF 1	2/9/2018 10:15:00AM	Waste Water	Hydrogen Ion (pH) by SM4500 H+ B			02/13/2018
1802A08-001H	INF 1	2/9/2018 10:15:00AM	Waste Water	Nitrogen, total Kjeldahl (TKN)		2/13/2018 11:15:00AM	02/14/2018
1802A08-001H	INF 1	2/9/2018 10:15:00AM	Waste Water	Nitrogen, Nitrate-Nitrite (as N)			02/15/2018
1802A08-001H	INF 1	2/9/2018 10:15:00AM	Waste Water	Phosphorus , Total		2/13/2018 9:40:00AM	02/13/2018
1802A08-001H	INF 1	2/9/2018 10:15:00AM	Waste Water	NITROGEN, TOTAL			02/15/2018
1802A08-001I	INF 1	2/9/2018 10:15:00AM	Waste Water	Total Cyanide		2/16/2018 9:00:00AM	02/16/2018
1802A08-001J	INF 1	2/9/2018 10:15:00AM	Waste Water	Biochemical Oxygen Demand by SM5210		2/14/2018 10:00:00AM	02/14/2018
1802A08-002A	EFF 1	2/9/2018 10:15:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/16/2018
1802A08-002B	EFF 1	2/9/2018 10:15:00AM	Waste Water	PP-CL-Pesticides		2/13/2018 12:00:00PM	02/14/2018
1802A08-002B	EFF 1	2/9/2018 10:15:00AM	Waste Water	PP-SEMIVOLATILE ORGANICS		2/15/2018 11:00:00AM	02/15/2018
1802A08-002C	EFF 1	2/9/2018 10:15:00AM	Waste Water	Oil and Grease		2/13/2018 8:30:00AM	02/13/2018
1802A08-002D	EFF 1	2/9/2018 10:15:00AM	Waste Water	Total Metals by ICP		2/13/2018 2:24:00PM	02/14/2018
1802A08-002D	EFF 1	2/9/2018 10:15:00AM	Waste Water	TOTAL MERCURY		2/13/2018 7:31:00PM	02/14/2018
1802A08-002E	EFF 1	2/9/2018 10:15:00AM	Waste Water	METALS, DISSOLVED		2/14/2018 10:45:00AM	02/14/2018
1802A08-002F	EFF 1	2/9/2018 10:15:00AM	Waste Water	Residue, Dissolved (TDS) by SM2540C		2/14/2018 4:00:00PM	02/14/2018
1802A08-002F	EFF 1	2/9/2018 10:15:00AM	Waste Water	Residue, Suspended (TSS) by SM2540D		2/15/2018 1:17:00PM	02/15/2018
1802A08-002G	EFF 1	2/9/2018 10:15:00AM	Waste Water	Alkalinity by SM2320B			02/16/2018
1802A08-002G	EFF 1	2/9/2018 10:15:00AM	Waste Water	Hydrogen Ion (pH) by SM4500 H+ B			02/13/2018

Client: ELOHI Engineering
Project Name: FMTC
Lab Order: 1802A08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802A08-002H	EFF 1	2/9/2018 10:15:00AM	Waste Water	Nitrogen, total Kjeldahl (TKN)		2/13/2018 11:15:00AM	02/14/2018
1802A08-002H	EFF 1	2/9/2018 10:15:00AM	Waste Water	Nitrogen, Nitrate-Nitrite (as N)			02/15/2018
1802A08-002H	EFF 1	2/9/2018 10:15:00AM	Waste Water	Phosphorus , Total		2/13/2018 9:40:00AM	02/13/2018
1802A08-002H	EFF 1	2/9/2018 10:15:00AM	Waste Water	NITROGEN, TOTAL			02/15/2018
1802A08-002I	EFF 1	2/9/2018 10:15:00AM	Waste Water	Total Cyanide		2/16/2018 9:00:00AM	02/16/2018
1802A08-002J	EFF 1	2/9/2018 10:15:00AM	Waste Water	Biochemical Oxygen Demand by SM5210		2/14/2018 10:00:00AM	02/14/2018
1802A08-003A	INF 2	2/9/2018 11:15:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018
1802A08-003A	INF 2	2/9/2018 11:15:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/16/2018
1802A08-003B	INF 2	2/9/2018 11:15:00AM	Waste Water	PP-CL-Pesticides		2/13/2018 12:00:00PM	02/14/2018
1802A08-003B	INF 2	2/9/2018 11:15:00AM	Waste Water	PP-SEMIVOLATILE ORGANICS		2/15/2018 11:00:00AM	02/15/2018
1802A08-003C	INF 2	2/9/2018 11:15:00AM	Waste Water	Oil and Grease		2/13/2018 8:30:00AM	02/13/2018
1802A08-003D	INF 2	2/9/2018 11:15:00AM	Waste Water	Total Metals by ICP		2/13/2018 2:24:00PM	02/14/2018
1802A08-003D	INF 2	2/9/2018 11:15:00AM	Waste Water	TOTAL MERCURY		2/13/2018 7:31:00PM	02/14/2018
1802A08-003E	INF 2	2/9/2018 11:15:00AM	Waste Water	METALS, DISSOLVED		2/14/2018 10:45:00AM	02/14/2018
1802A08-003F	INF 2	2/9/2018 11:15:00AM	Waste Water	Residue, Dissolved (TDS) by SM2540C		2/14/2018 4:00:00PM	02/14/2018
1802A08-003F	INF 2	2/9/2018 11:15:00AM	Waste Water	Residue, Suspended (TSS) by SM2540D		2/15/2018 1:17:00PM	02/15/2018
1802A08-003G	INF 2	2/9/2018 11:15:00AM	Waste Water	Alkalinity by SM2320B			02/16/2018
1802A08-003G	INF 2	2/9/2018 11:15:00AM	Waste Water	Hydrogen Ion (pH) by SM4500 H+ B			02/13/2018
1802A08-003H	INF 2	2/9/2018 11:15:00AM	Waste Water	Nitrogen, total Kjeldahl (TKN)		2/13/2018 11:15:00AM	02/14/2018
1802A08-003H	INF 2	2/9/2018 11:15:00AM	Waste Water	Nitrogen, Nitrate-Nitrite (as N)			02/15/2018
1802A08-003H	INF 2	2/9/2018 11:15:00AM	Waste Water	Phosphorus , Total		2/13/2018 9:40:00AM	02/13/2018
1802A08-003H	INF 2	2/9/2018 11:15:00AM	Waste Water	NITROGEN, TOTAL			02/15/2018
1802A08-003I	INF 2	2/9/2018 11:15:00AM	Waste Water	Total Cyanide		2/16/2018 9:00:00AM	02/16/2018
1802A08-003J	INF 2	2/9/2018 11:15:00AM	Waste Water	Biochemical Oxygen Demand by SM5210		2/14/2018 10:00:00AM	02/14/2018
1802A08-004A	EFF 2	2/9/2018 11:15:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/17/2018
1802A08-004B	EFF 2	2/9/2018 11:15:00AM	Waste Water	PP-CL-Pesticides		2/13/2018 12:00:00PM	02/14/2018
1802A08-004B	EFF 2	2/9/2018 11:15:00AM	Waste Water	PP-SEMIVOLATILE ORGANICS		2/15/2018 11:00:00AM	02/15/2018
1802A08-004C	EFF 2	2/9/2018 11:15:00AM	Waste Water	Oil and Grease		2/15/2018 8:30:00AM	02/15/2018
1802A08-004D	EFF 2	2/9/2018 11:15:00AM	Waste Water	Total Metals by ICP		2/13/2018 2:24:00PM	02/14/2018

Client: ELOHI Engineering
Project Name: FMTC
Lab Order: 1802A08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802A08-004D	EFF 2	2/9/2018 11:15:00AM	Waste Water	TOTAL MERCURY		2/13/2018 7:31:00PM	02/14/2018
1802A08-004E	EFF 2	2/9/2018 11:15:00AM	Waste Water	METALS, DISSOLVED		2/14/2018 10:45:00AM	02/14/2018
1802A08-004F	EFF 2	2/9/2018 11:15:00AM	Waste Water	Residue, Dissolved (TDS) by SM2540C		2/14/2018 4:00:00PM	02/14/2018
1802A08-004F	EFF 2	2/9/2018 11:15:00AM	Waste Water	Residue, Suspended (TSS) by SM2540D		2/15/2018 1:17:00PM	02/15/2018
1802A08-004G	EFF 2	2/9/2018 11:15:00AM	Waste Water	Alkalinity by SM2320B			02/16/2018
1802A08-004G	EFF 2	2/9/2018 11:15:00AM	Waste Water	Hydrogen Ion (pH) by SM4500 H+ B			02/13/2018
1802A08-004H	EFF 2	2/9/2018 11:15:00AM	Waste Water	Nitrogen, total Kjeldahl (TKN)		2/13/2018 11:15:00AM	02/14/2018
1802A08-004H	EFF 2	2/9/2018 11:15:00AM	Waste Water	Nitrogen, Nitrate-Nitrite (as N)			02/15/2018
1802A08-004H	EFF 2	2/9/2018 11:15:00AM	Waste Water	Phosphorus , Total		2/13/2018 9:40:00AM	02/13/2018
1802A08-004H	EFF 2	2/9/2018 11:15:00AM	Waste Water	NITROGEN, TOTAL			02/15/2018
1802A08-004I	EFF 2	2/9/2018 11:15:00AM	Waste Water	Total Cyanide		2/16/2018 9:00:00AM	02/16/2018
1802A08-004J	EFF 2	2/9/2018 11:15:00AM	Waste Water	Biochemical Oxygen Demand by SM5210		2/14/2018 10:00:00AM	02/14/2018
1802A08-005A	INF 3	2/9/2018 12:15:00PM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018
1802A08-005A	INF 3	2/9/2018 12:15:00PM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/16/2018
1802A08-005B	INF 3	2/9/2018 12:15:00PM	Waste Water	PP-CL-Pesticides		2/13/2018 12:00:00PM	02/14/2018
1802A08-005B	INF 3	2/9/2018 12:15:00PM	Waste Water	PP-SEMIVOLATILE ORGANICS		2/15/2018 11:00:00AM	02/15/2018
1802A08-005C	INF 3	2/9/2018 12:15:00PM	Waste Water	Oil and Grease		2/15/2018 8:30:00AM	02/15/2018
1802A08-005D	INF 3	2/9/2018 12:15:00PM	Waste Water	Total Metals by ICP		2/13/2018 2:24:00PM	02/14/2018
1802A08-005D	INF 3	2/9/2018 12:15:00PM	Waste Water	TOTAL MERCURY		2/13/2018 7:31:00PM	02/14/2018
1802A08-005E	INF 3	2/9/2018 12:15:00PM	Waste Water	METALS, DISSOLVED		2/14/2018 10:45:00AM	02/14/2018
1802A08-005F	INF 3	2/9/2018 12:15:00PM	Waste Water	Residue, Dissolved (TDS) by SM2540C		2/14/2018 4:00:00PM	02/14/2018
1802A08-005F	INF 3	2/9/2018 12:15:00PM	Waste Water	Residue, Suspended (TSS) by SM2540D		2/15/2018 1:17:00PM	02/15/2018
1802A08-005G	INF 3	2/9/2018 12:15:00PM	Waste Water	Alkalinity by SM2320B			02/16/2018
1802A08-005G	INF 3	2/9/2018 12:15:00PM	Waste Water	Hydrogen Ion (pH) by SM4500 H+ B			02/13/2018
1802A08-005H	INF 3	2/9/2018 12:15:00PM	Waste Water	Nitrogen, total Kjeldahl (TKN)		2/13/2018 11:15:00AM	02/14/2018
1802A08-005H	INF 3	2/9/2018 12:15:00PM	Waste Water	Nitrogen, Nitrate-Nitrite (as N)			02/15/2018
1802A08-005H	INF 3	2/9/2018 12:15:00PM	Waste Water	Phosphorus , Total		2/13/2018 9:40:00AM	02/13/2018
1802A08-005H	INF 3	2/9/2018 12:15:00PM	Waste Water	NITROGEN, TOTAL			02/15/2018
1802A08-005I	INF 3	2/9/2018 12:15:00PM	Waste Water	Total Cyanide		2/16/2018 9:00:00AM	02/16/2018

Client: ELOHI Engineering
Project Name: FMTC
Lab Order: 1802A08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802A08-005J	INF 3	2/9/2018 12:15:00PM	Waste Water	Biochemical Oxygen Demand by SM5210		2/14/2018 10:00:00AM	02/14/2018
1802A08-006A	EFF 3	2/9/2018 12:15:00PM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/16/2018
1802A08-006B	EFF 3	2/9/2018 12:15:00PM	Waste Water	PP-CL-Pesticides		2/13/2018 12:00:00PM	02/14/2018
1802A08-006B	EFF 3	2/9/2018 12:15:00PM	Waste Water	PP-SEMIVOLATILE ORGANICS		2/15/2018 11:00:00AM	02/15/2018
1802A08-006C	EFF 3	2/9/2018 12:15:00PM	Waste Water	Oil and Grease		2/15/2018 8:30:00AM	02/15/2018
1802A08-006D	EFF 3	2/9/2018 12:15:00PM	Waste Water	Total Metals by ICP		2/13/2018 2:24:00PM	02/14/2018
1802A08-006D	EFF 3	2/9/2018 12:15:00PM	Waste Water	TOTAL MERCURY		2/13/2018 7:31:00PM	02/14/2018
1802A08-006E	EFF 3	2/9/2018 12:15:00PM	Waste Water	METALS, DISSOLVED		2/14/2018 10:45:00AM	02/14/2018
1802A08-006F	EFF 3	2/9/2018 12:15:00PM	Waste Water	Residue, Dissolved (TDS) by SM2540C		2/14/2018 4:00:00PM	02/14/2018
1802A08-006F	EFF 3	2/9/2018 12:15:00PM	Waste Water	Residue, Suspended (TSS) by SM2540D		2/15/2018 11:08:00AM	02/16/2018
1802A08-006G	EFF 3	2/9/2018 12:15:00PM	Waste Water	Alkalinity by SM2320B			02/16/2018
1802A08-006G	EFF 3	2/9/2018 12:15:00PM	Waste Water	Hydrogen Ion (pH) by SM4500 H+ B			02/13/2018
1802A08-006H	EFF 3	2/9/2018 12:15:00PM	Waste Water	Nitrogen, total Kjeldahl (TKN)		2/13/2018 11:15:00AM	02/14/2018
1802A08-006H	EFF 3	2/9/2018 12:15:00PM	Waste Water	Nitrogen, Nitrate-Nitrite (as N)			02/15/2018
1802A08-006H	EFF 3	2/9/2018 12:15:00PM	Waste Water	Phosphorus , Total		2/13/2018 9:40:00AM	02/13/2018
1802A08-006H	EFF 3	2/9/2018 12:15:00PM	Waste Water	NITROGEN, TOTAL			02/15/2018
1802A08-006I	EFF 3	2/9/2018 12:15:00PM	Waste Water	Total Cyanide		2/16/2018 9:00:00AM	02/16/2018
1802A08-006J	EFF 3	2/9/2018 12:15:00PM	Waste Water	Biochemical Oxygen Demand by SM5210		2/14/2018 10:00:00AM	02/14/2018
1802A08-007A	TANK	2/10/2018 5:00:00PM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/16/2018
1802A08-007B	TANK	2/10/2018 5:00:00PM	Waste Water	PP-CL-Pesticides		2/13/2018 12:00:00PM	02/14/2018
1802A08-007B	TANK	2/10/2018 5:00:00PM	Waste Water	PP-SEMIVOLATILE ORGANICS		2/15/2018 11:00:00AM	02/15/2018
1802A08-007F	TANK	2/10/2018 5:00:00PM	Waste Water	Residue, Dissolved (TDS) by SM2540C		2/14/2018 4:00:00PM	02/14/2018
1802A08-007F	TANK	2/10/2018 5:00:00PM	Waste Water	Residue, Suspended (TSS) by SM2540D		2/15/2018 11:08:00AM	02/16/2018
1802A08-007J	TANK	2/10/2018 5:00:00PM	Waste Water	Biochemical Oxygen Demand by SM5210		2/14/2018 10:00:00AM	02/14/2018
1802A08-008A	TRIP BLANK 1	2/10/2018 12:00:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018
1802A08-009A	TRIP BLANK 2	2/10/2018 12:00:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018
1802A08-010A	TRIP BLANK 3	2/10/2018 12:00:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018
1802A08-011A	TRIP BLANK 4	2/10/2018 12:00:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018
1802A08-012A	TRIP BLANK 5	2/10/2018 12:00:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018

Client: ELOHI Engineering
Project Name: FMTC
Lab Order: 1802A08

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
1802A08-013A	TRIP BLANK 6	2/10/2018 12:00:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018
1802A08-014A	TRIP BLANK 7	2/10/2018 12:00:00AM	Waste Water	Volatile Organic Compounds by GC/MS		2/15/2018 6:05:00PM	02/15/2018

Client: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255694

Sample ID: **MB-255694**	Client ID:			Units: **mg/L**	Prep Date: **02/14/2018**	Run No: **363045**
SampleType: **MBLK**	TestCode: **METALS, DISSOLVED** **E200.7**			BatchID: **255694**	Analysis Date: **02/14/2018**	Seq No: **8020738**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	BRL	0.100									
Manganese	BRL	0.0150									

Sample ID: **LCS-255694**	Client ID:			Units: **mg/L**	Prep Date: **02/14/2018**	Run No: **363045**
SampleType: **LCS**	TestCode: **METALS, DISSOLVED** **E200.7**			BatchID: **255694**	Analysis Date: **02/14/2018**	Seq No: **8020569**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.297	0.100	10.00		93.0	85	115				
Manganese	0.9438	0.0150	1.000		94.4	85	115				

Sample ID: **1802984-001EMS**	Client ID:			Units: **mg/L**	Prep Date: **02/14/2018**	Run No: **363045**
SampleType: **MS**	TestCode: **METALS, DISSOLVED** **E200.7**			BatchID: **255694**	Analysis Date: **02/14/2018**	Seq No: **8020571**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.115	0.100	10.00	0.1937	89.2	70	130				
Manganese	0.9386	0.0150	1.000	0.03167	90.7	70	130				

Sample ID: **1802A08-006EMS**	Client ID: **EFF 3**			Units: **mg/L**	Prep Date: **02/14/2018**	Run No: **363045**
SampleType: **MS**	TestCode: **METALS, DISSOLVED** **E200.7**			BatchID: **255694**	Analysis Date: **02/14/2018**	Seq No: **8020576**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	8.829	0.100	10.00		88.3	70	130				
Manganese	0.9481	0.0150	1.000	0.05124	89.7	70	130				

Sample ID: **1802984-001EMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/14/2018**	Run No: **363045**
SampleType: **MSD**	TestCode: **METALS, DISSOLVED** **E200.7**			BatchID: **255694**	Analysis Date: **02/14/2018**	Seq No: **8020572**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Iron	9.106	0.100	10.00	0.1937	89.1	70	130	9.115	0.100	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255694

Sample ID: **1802984-001EMSD** Client ID:
SampleType: **MSD** TestCode: **METALS, DISSOLVED E200.7**
Units: **mg/L** Prep Date: **02/14/2018** Run No: **363045**
BatchID: **255694** Analysis Date: **02/14/2018** Seq No: **8020572**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Manganese	0.9374	0.0150	1.000	0.03167	90.6	70	130	0.9386	0.118	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255734

Sample ID: **MB-255734**	Client ID:					Units: **mg/L**		Prep Date: **02/13/2018**		Run No: **362910**	
SampleType: **MBLK**	TestCode: **Total Oil and Grease (HEM) E1664B**					BatchID: **255734**		Analysis Date: **02/13/2018**		Seq No: **8017306**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Oil and Grease	BRL	5.0									

Sample ID: **LCS-255734**	Client ID:					Units: **mg/L**		Prep Date: **02/13/2018**		Run No: **362910**	
SampleType: **LCS**	TestCode: **Total Oil and Grease (HEM) E1664B**					BatchID: **255734**		Analysis Date: **02/13/2018**		Seq No: **8017307**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Oil and Grease	33.60	5.0	40.00		84.0	78	114				

Sample ID: **LCSD-255734**	Client ID:					Units: **mg/L**		Prep Date: **02/13/2018**		Run No: **362910**	
SampleType: **LCSD**	TestCode: **Total Oil and Grease (HEM) E1664B**					BatchID: **255734**		Analysis Date: **02/13/2018**		Seq No: **8017308**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Oil and Grease	34.00	5.0	40.00		85.0	78	114	33.60	1.18	18	

Sample ID: **1802A81-003AMS**	Client ID:					Units: **mg/L**		Prep Date: **02/13/2018**		Run No: **362910**	
SampleType: **MS**	TestCode: **Total Oil and Grease (HEM) E1664B**					BatchID: **255734**		Analysis Date: **02/13/2018**		Seq No: **8017313**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Oil and Grease	34.20	5.0	40.00		85.5	78	114				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255735

Sample ID: **MB-255735**	Client ID:			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362867**
SampleType: **MBLK**	TestCode: **Total Phosphorus E365.1**			BatchID: **255735**	Analysis Date: **02/13/2018**	Seq No: **8017627**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	BRL	0.050									

Sample ID: **LCS-255735**	Client ID:			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362867**
SampleType: **LCS**	TestCode: **Total Phosphorus E365.1**			BatchID: **255735**	Analysis Date: **02/13/2018**	Seq No: **8017628**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	2.120	0.050	2.000	0.01600	105	90	110				

Sample ID: **1802A08-006HMS**	Client ID: **EFF 3**			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362867**
SampleType: **MS**	TestCode: **Total Phosphorus E365.1**			BatchID: **255735**	Analysis Date: **02/13/2018**	Seq No: **8017630**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	2.140	0.050	2.000	0.04690	105	90	110				

Sample ID: **1802A73-001BMS**	Client ID:			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362867**
SampleType: **MS**	TestCode: **Total Phosphorus E365.1**			BatchID: **255735**	Analysis Date: **02/13/2018**	Seq No: **8017643**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	2.130	0.050	2.000	0.03170	105	90	110				

Sample ID: **1802A08-006HMSD**	Client ID: **EFF 3**			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362867**
SampleType: **MSD**	TestCode: **Total Phosphorus E365.1**			BatchID: **255735**	Analysis Date: **02/13/2018**	Seq No: **8017631**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phosphorus, Total (As P)	2.100	0.050	2.000	0.04690	103	90	110	2.140	1.89	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255744

Sample ID: **MB-255744**	Client ID:		Units: **ug/L**	Prep Date: **02/13/2018**	Run No: **363369**
SampleType: **MBLK**	TestCode: **CHLORINATED PESTICIDES/PCBs BY E608/E608.2**		BatchID: **255744**	Analysis Date: **02/19/2018**	Seq No: **8028350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.050									
4,4´-DDE	BRL	0.050									
4,4´-DDT	BRL	0.050									
Aldrin	BRL	0.025									
alpha-BHC	BRL	0.025									
Aroclor 1016	BRL	0.25									
Aroclor 1221	BRL	0.25									
Aroclor 1232	BRL	0.25									
Aroclor 1242	BRL	0.25									
Aroclor 1248	BRL	0.25									
Aroclor 1254	BRL	0.25									
Aroclor 1260	BRL	0.25									
beta-BHC	BRL	0.025									
Chlordane	BRL	0.12									
delta-BHC	BRL	0.025									
Dieldrin	BRL	0.025									
Endosulfan I	BRL	0.12									
Endosulfan II	BRL	0.12									
Endosulfan sulfate	BRL	0.12									
Endrin	BRL	0.050									
Endrin aldehyde	BRL	0.050									
gamma-BHC	BRL	0.025									
Heptachlor	BRL	0.025									
Heptachlor epoxide	BRL	0.025									
Methoxychlor	BRL	0.075									
Toxaphene	BRL	0.50									
Surr: Decachlorobiphenyl	0.09755	0	0.1250		78.0	15.5	120				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255744

Sample ID: **MB-255744**	Client ID:		Units: **ug/L**	Prep Date: **02/13/2018**	Run No: **363369**
SampleType: **MBLK**	TestCode: **CHLORINATED PESTICIDES/PCBs BY E608/E608.2**		BatchID: **255744**	Analysis Date: **02/19/2018**	Seq No: **8028350**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: Tetrachloro-m-xylene	0.1066	0	0.1250		85.3	23.1	135				

Sample ID: **MB-255744-B**	Client ID:		Units: **ug/L**	Prep Date: **02/13/2018**	Run No: **363369**
SampleType: **MBLK**	TestCode: **CHLORINATED PESTICIDES/PCBs BY E608/E608.2**		BatchID: **255744**	Analysis Date: **02/19/2018**	Seq No: **8027942**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	BRL	0.20									
4,4´-DDE	BRL	0.20									
4,4´-DDT	BRL	0.20									
Aldrin	BRL	0.10									
alpha-BHC	BRL	0.10									
Aroclor 1016	BRL	1.0									
Aroclor 1221	BRL	1.0									
Aroclor 1232	BRL	1.0									
Aroclor 1242	BRL	1.0									
Aroclor 1248	BRL	1.0									
Aroclor 1254	BRL	1.0									
Aroclor 1260	BRL	1.0									
beta-BHC	BRL	0.10									
Chlordane	BRL	0.50									
delta-BHC	BRL	0.10									
Dieldrin	BRL	0.10									
Endosulfan I	BRL	0.50									
Endosulfan II	BRL	0.50									
Endosulfan sulfate	BRL	0.50									
Endrin	BRL	0.20									
Endrin aldehyde	BRL	0.20									
gamma-BHC	BRL	0.10									

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255744

Sample ID: **MB-255744-B** Client ID: Units: **ug/L** Prep Date: **02/13/2018** Run No: **363369**
SampleType: **MBLK** TestCode: **CHLORINATED PESTICIDES/PCBs BY E608/E608.2** BatchID: **255744** Analysis Date: **02/19/2018** Seq No: **8027942**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Heptachlor	BRL	0.10									
Heptachlor epoxide	BRL	0.10									
Methoxychlor	BRL	0.30									
Toxaphene	BRL	2.0									
Surr: Decachlorobiphenyl	0.3140	0	0.5000		62.8	15.5	120				
Surr: Tetrachloro-m-xylene	0.3656	0	0.5000		73.1	23.1	135				

Sample ID: **LCS-255744** Client ID: Units: **ug/L** Prep Date: **02/13/2018** Run No: **363369**
SampleType: **LCS** TestCode: **CHLORINATED PESTICIDES/PCBs BY E608/E608.2** BatchID: **255744** Analysis Date: **02/19/2018** Seq No: **8027943**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	0.8238	0.20	1.000		82.4	48	126				
4,4´-DDE	0.8274	0.20	1.000		82.7	54	130				
4,4´-DDT	0.8011	0.20	1.000		80.1	46	137				
Aldrin	0.8006	0.10	1.000		80.1	54	112				
alpha-BHC	0.8993	0.10	1.000		89.9	49	122				
beta-BHC	0.8464	0.10	1.000		84.6	39	130				
delta-BHC	0.8976	0.10	1.000		89.8	51	119				
Dieldrin	0.8179	0.10	1.000		81.8	58	125				
Endosulfan I	0.8307	0.50	1.000		83.1	57	141				
Endosulfan II	0.8452	0.50	1.000		84.5	22	171				
Endosulfan sulfate	0.8015	0.50	1.000		80.1	38	132				
Endrin	0.8693	0.20	1.000		86.9	51	126				
Endrin aldehyde	0.7184	0.20	1.000		71.8	51	126				
gamma-BHC	0.8810	0.10	1.000		88.1	43	116				
Heptachlor	0.8842	0.10	1.000		88.4	43	100				
Heptachlor epoxide	0.7964	0.10	1.000		79.6	57	132				
Methoxychlor	2.492	0.30	3.000		83.1	63	137				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255744

Sample ID: **LCS-255744**	Client ID:		Units: **ug/L**	Prep Date: **02/13/2018**	Run No: **363369**
SampleType: **LCS**	TestCode: **CHLORINATED PESTICIDES/PCBs BY E608/E608.2**		BatchID: **255744**	Analysis Date: **02/19/2018**	Seq No: **8027943**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Surr: Decachlorobiphenyl	0.3104	0	0.5000		62.1	15.5	120				
Surr: Tetrachloro-m-xylene	0.3617	0	0.5000		72.3	23.1	135				

Sample ID: **LCSD-255744**	Client ID:		Units: **ug/L**	Prep Date: **02/13/2018**	Run No: **363369**
SampleType: **LCSD**	TestCode: **CHLORINATED PESTICIDES/PCBs BY E608/E608.2**		BatchID: **255744**	Analysis Date: **02/19/2018**	Seq No: **8027944**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,4´-DDD	0.7996	0.20	1.000		80.0	48	126	0.8238	2.98	20	
4,4´-DDE	0.7879	0.20	1.000		78.8	54	130	0.8274	4.89	21.5	
4,4´-DDT	0.7665	0.20	1.000		76.7	46	137	0.8011	4.41	20	
Aldrin	0.7903	0.10	1.000		79.0	54	112	0.8006	1.30	44.3	
alpha-BHC	0.9100	0.10	1.000		91.0	49	122	0.8993	1.19	48.1	
beta-BHC	0.8783	0.10	1.000		87.8	39	130	0.8464	3.70	27	
delta-BHC	0.9273	0.10	1.000		92.7	51	119	0.8976	3.25	23.9	
Dieldrin	0.8228	0.10	1.000		82.3	58	125	0.8179	0.601	20.9	
Endosulfan I	0.8447	0.50	1.000		84.5	57	141	0.8307	1.67	24.7	
Endosulfan II	0.8597	0.50	1.000		86.0	22	171	0.8452	1.70	20	
Endosulfan sulfate	0.8292	0.50	1.000		82.9	38	132	0.8015	3.40	20	
Endrin	0.8767	0.20	1.000		87.7	51	126	0.8693	0.849	23.7	
Endrin aldehyde	0.7564	0.20	1.000		75.6	51	126	0.7184	5.15	20	
gamma-BHC	0.9006	0.10	1.000		90.1	43	116	0.8810	2.20	44.6	
Heptachlor	0.8839	0.10	1.000		88.4	43	100	0.8842	0.034	45.2	
Heptachlor epoxide	0.8076	0.10	1.000		80.8	57	132	0.7964	1.39	28.1	
Methoxychlor	2.479	0.30	3.000		82.6	63	137	2.492	0.538	20	
Surr: Decachlorobiphenyl	0.2892	0	0.5000		57.8	15.5	120	0.3104	0	0	
Surr: Tetrachloro-m-xylene	0.3655	0	0.5000		73.1	23.1	135	0.3617	0	0	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255763

Sample ID: **MB-255763**	Client ID:			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362985**
SampleType: **MBLK**	TestCode: **Total Mercury E245.1**			BatchID: **255763**	Analysis Date: **02/14/2018**	Seq No: **8019156**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	BRL	0.00020									

Sample ID: **LCS-255763**	Client ID:			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362985**
SampleType: **LCS**	TestCode: **Total Mercury E245.1**			BatchID: **255763**	Analysis Date: **02/14/2018**	Seq No: **8019157**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003633	0.00020	0.0040		90.8	85	115				

Sample ID: **1802A08-001DMS**	Client ID: **INF 1**			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362985**
SampleType: **MS**	TestCode: **Total Mercury E245.1**			BatchID: **255763**	Analysis Date: **02/14/2018**	Seq No: **8019159**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003658	0.00020	0.0040		91.4	70	130				

Sample ID: **1802A17-007AMS**	Client ID:			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362985**
SampleType: **MS**	TestCode: **Total Mercury E245.1**			BatchID: **255763**	Analysis Date: **02/14/2018**	Seq No: **8019162**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003531	0.00020	0.0040		88.3	70	130				

Sample ID: **1802A08-001DMSD**	Client ID: **INF 1**			Units: **mg/L**	Prep Date: **02/13/2018**	Run No: **362985**
SampleType: **MSD**	TestCode: **Total Mercury E245.1**			BatchID: **255763**	Analysis Date: **02/14/2018**	Seq No: **8019160**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury	0.003642	0.00020	0.0040		91.0	70	130	0.003658	0.446	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255784

Sample ID: **MB-255784** Client ID: Units: **mg/L** Prep Date: **02/13/2018** Run No: **363053**
SampleType: **MBLK** TestCode: **Total Metals by ICP E200.7** BatchID: **255784** Analysis Date: **02/14/2018** Seq No: **8020834**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.0500									
Cadmium	BRL	0.0050									
Chromium	BRL	0.0100									
Copper	BRL	0.0250									
Iron	BRL	0.100									
Lead	BRL	0.0100									
Magnesium	BRL	5.00									
Manganese	BRL	0.0150									
Molybdenum	BRL	0.0340									
Nickel	BRL	0.0200									
Selenium	BRL	0.0200									
Silver	BRL	0.0050									
Zinc	BRL	0.0500									

Sample ID: **LCS-255784** Client ID: Units: **mg/L** Prep Date: **02/13/2018** Run No: **363053**
SampleType: **LCS** TestCode: **Total Metals by ICP E200.7** BatchID: **255784** Analysis Date: **02/14/2018** Seq No: **8020835**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	1.063	0.0500	1.000		106	85	115				
Cadmium	1.030	0.0050	1.000	0.002780	103	85	115				
Chromium	0.9974	0.0100	1.000	0.002870	99.5	85	115				
Copper	0.9213	0.0250	1.000		92.1	85	115				
Iron	9.613	0.100	10.00		96.1	85	115				
Lead	1.034	0.0100	1.000	0.004030	103	85	115				
Magnesium	10.34	5.00	10.00	0.05066	103	85	115				
Manganese	0.9881	0.0150	1.000	0.003510	98.5	85	115				
Molybdenum	0.9843	0.0500	1.000		98.4	85	115				
Nickel	1.020	0.0200	1.000		102	85	115				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255784

Sample ID: **LCS-255784** Client ID: Units: **mg/L** Prep Date: **02/13/2018** Run No: **363053**
SampleType: **LCS** TestCode: **Total Metals by ICP E200.7** BatchID: **255784** Analysis Date: **02/14/2018** Seq No: **8020835**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Selenium	1.321	0.0200	1.000		132	85	115				S
Silver	0.1009	0.0050	0.1000		101	85	115				
Zinc	1.110	0.0500	1.000		111	85	115				

Sample ID: **1802A08-001DMS** Client ID: **INF 1** Units: **mg/L** Prep Date: **02/13/2018** Run No: **363053**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **255784** Analysis Date: **02/14/2018** Seq No: **8020837**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9384	0.0500	1.000		93.8	70	130				
Cadmium	0.9177	0.0050	1.000	0.008530	90.9	70	130				
Chromium	0.9297	0.0100	1.000	0.01669	91.3	70	130				
Copper	0.8835	0.0250	1.000	0.009800	87.4	70	130				
Iron	10.08	0.100	10.00	1.480	86.0	70	130				
Lead	0.9392	0.0100	1.000	0.008410	93.1	70	130				
Magnesium	23.49	5.00	10.00	15.31	81.8	70	130				
Manganese	1.006	0.0150	1.000	0.1157	89.0	70	130				
Molybdenum	0.9376	0.0500	1.000	0.02288	91.5	70	130				
Nickel	0.9006	0.0200	1.000	0.01155	88.9	70	130				
Selenium	0.9216	0.0200	1.000		92.2	70	130				
Silver	0.09160	0.0050	0.1000		91.6	70	130				
Zinc	0.9533	0.0500	1.000	0.03189	92.1	70	130				

Sample ID: **1802A08-006DMS** Client ID: **EFF 3** Units: **mg/L** Prep Date: **02/13/2018** Run No: **363053**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **255784** Analysis Date: **02/14/2018** Seq No: **8020844**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9777	0.0500	1.000		97.8	70	130				
Cadmium	0.9293	0.0050	1.000	0.006160	92.3	70	130				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255784

Sample ID: **1802A08-006DMS** Client ID: **EFF 3** Units: **mg/L** Prep Date: **02/13/2018** Run No: **363053**
SampleType: **MS** TestCode: **Total Metals by ICP E200.7** BatchID: **255784** Analysis Date: **02/14/2018** Seq No: **8020844**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	0.9400	0.0100	1.000	0.01443	92.6	70	130				
Copper	0.8972	0.0250	1.000	0.006250	89.1	70	130				
Iron	9.761	0.100	10.00	1.039	87.2	70	130				
Lead	0.9468	0.0100	1.000	0.007070	94.0	70	130				
Magnesium	23.16	5.00	10.00	14.63	85.3	70	130				
Manganese	0.9943	0.0150	1.000	0.08775	90.7	70	130				
Molybdenum	0.9637	0.0500	1.000		96.4	70	130				
Nickel	0.9175	0.0200	1.000	0.008530	90.9	70	130				
Selenium	0.9397	0.0200	1.000		94.0	70	130				
Silver	0.09279	0.0050	0.1000		92.8	70	130				
Zinc	0.9611	0.0500	1.000	0.02112	94.0	70	130				

Sample ID: **1802A08-001DMSD** Client ID: **INF 1** Units: **mg/L** Prep Date: **02/13/2018** Run No: **363053**
SampleType: **MSD** TestCode: **Total Metals by ICP E200.7** BatchID: **255784** Analysis Date: **02/14/2018** Seq No: **8020838**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.9628	0.0500	1.000		96.3	70	130	0.9384	2.56	20	
Cadmium	0.9247	0.0050	1.000	0.008530	91.6	70	130	0.9177	0.757	20	
Chromium	0.9357	0.0100	1.000	0.01669	91.9	70	130	0.9297	0.635	20	
Copper	0.8872	0.0250	1.000	0.009800	87.7	70	130	0.8835	0.422	20	
Iron	10.13	0.100	10.00	1.480	86.5	70	130	10.08	0.429	20	
Lead	0.9449	0.0100	1.000	0.008410	93.6	70	130	0.9392	0.601	20	
Magnesium	23.89	5.00	10.00	15.31	85.8	70	130	23.49	1.66	20	
Manganese	1.013	0.0150	1.000	0.1157	89.7	70	130	1.006	0.701	20	
Molybdenum	0.9482	0.0500	1.000	0.02288	92.5	70	130	0.9376	1.13	20	
Nickel	0.9113	0.0200	1.000	0.01155	90.0	70	130	0.9006	1.18	20	
Selenium	0.9344	0.0200	1.000		93.4	70	130	0.9216	1.39	20	
Silver	0.09142	0.0050	0.1000		91.4	70	130	0.09160	0.197	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255784

Sample ID: **1802A08-001DMSD** Client ID: **INF 1** Units: **mg/L** Prep Date: **02/13/2018** Run No: **363053**
SampleType: **MSD** TestCode: **Total Metals by ICP E200.7** BatchID: **255784** Analysis Date: **02/14/2018** Seq No: **8020838**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Zinc	0.9468	0.0500	1.000	0.03189	91.5	70	130	0.9533	0.679	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255787

Sample ID: **MB-255787** Client ID: Units: **mg/L** Prep Date: **02/14/2018** Run No: **363348**
SampleType: **MBLK** TestCode: **Biochemical Oxygen Demand by SM5210B** BatchID: **255787** Analysis Date: **02/14/2018** Seq No: **8027464**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	BRL	2.0									

Sample ID: **LCS-255787** Client ID: Units: **mg/L** Prep Date: **02/14/2018** Run No: **363348**
SampleType: **LCS** TestCode: **Biochemical Oxygen Demand by SM5210B** BatchID: **255787** Analysis Date: **02/14/2018** Seq No: **8027465**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	186.0	5.0	198.0		93.9	85	115				

Sample ID: **LCSD-255787** Client ID: Units: **mg/L** Prep Date: **02/14/2018** Run No: **363348**
SampleType: **LCSD** TestCode: **Biochemical Oxygen Demand by SM5210B** BatchID: **255787** Analysis Date: **02/14/2018** Seq No: **8027487**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Biochemical Oxygen Demand	169.0	5.0	198.0		85.4	85	115	186.0	9.58	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255850

Sample ID: **MB-255850** Client ID: Units: **mg/L** Prep Date: **02/14/2018** Run No: **363031**
SampleType: **MBLK** TestCode: **Residue, Dissolved (TDS) by SM2540C** BatchID: **255850** Analysis Date: **02/14/2018** Seq No: **8020249**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	BRL	10									

Sample ID: **1802C53-001DDUP** Client ID: Units: **mg/L** Prep Date: **02/14/2018** Run No: **363031**
SampleType: **DUP** TestCode: **Residue, Dissolved (TDS) by SM2540C** BatchID: **255850** Analysis Date: **02/14/2018** Seq No: **8020259**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Dissolved (TDS)	7060	100						7100	0.565	5	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255863

Sample ID: **MB-255863**	Client ID:					Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363111**	
SampleType: **MBLK**	TestCode: **Total Oil and Grease (HEM) E1664B**					BatchID: **255863**		Analysis Date: **02/15/2018**		Seq No: **8021818**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Oil and Grease	BRL	5.0									

Sample ID: **LCS-255863**	Client ID:					Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363111**	
SampleType: **LCS**	TestCode: **Total Oil and Grease (HEM) E1664B**					BatchID: **255863**		Analysis Date: **02/15/2018**		Seq No: **8021819**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Oil and Grease	35.90	5.0	40.00		89.8	78	114				

Sample ID: **LCSD-255863**	Client ID:					Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363111**	
SampleType: **LCSD**	TestCode: **Total Oil and Grease (HEM) E1664B**					BatchID: **255863**		Analysis Date: **02/15/2018**		Seq No: **8021820**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Oil and Grease	34.20	5.0	40.00		85.5	78	114	35.90	4.85	18	

Sample ID: **1802B29-001BMS**	Client ID:					Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363111**	
SampleType: **MS**	TestCode: **Total Oil and Grease (HEM) E1664B**					BatchID: **255863**		Analysis Date: **02/15/2018**		Seq No: **8021827**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Oil and Grease	34.20	5.0	40.00	2.700	78.8	78	114				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **MB-255879** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8022725**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Diphenylhydrazine	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,4,6-Trichlorophenol	BRL	5.0									
2,4-Dichlorophenol	BRL	5.0									
2,4-Dimethylphenol	BRL	5.0									
2,4-Dinitrophenol	BRL	12									
2,4-Dinitrotoluene	BRL	5.0									
2,6-Dinitrotoluene	BRL	5.0									
2-Chloronaphthalene	BRL	5.0									
2-Chlorophenol	BRL	5.0									
2-Nitrophenol	BRL	5.0									
3,3´-Dichlorobenzidine	BRL	5.0									
4,6-Dinitro-2-methylphenol	BRL	10									
4-Bromophenyl phenyl ether	BRL	5.0									
4-Chloro-3-methylphenol	BRL	5.0									
4-Chlorophenyl phenyl ether	BRL	5.0									
4-Nitrophenol	BRL	12									
Acenaphthene	BRL	5.0									
Acenaphthylene	BRL	5.0									
Anthracene	BRL	5.0									
Benz(a)anthracene	BRL	5.0									
Benzidine	BRL	40									
Benzo(a)pyrene	BRL	5.0									
Benzo(b)fluoranthene	BRL	5.0									

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **MB-255879** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8022725**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(g,h,i)perylene	BRL	5.0									
Benzo(k)fluoranthene	BRL	5.0									
Bis(2-chloroethoxy)methane	BRL	5.0									
Bis(2-chloroethyl)ether	BRL	5.0									
Bis(2-chloroisopropyl)ether	BRL	5.0									
Bis(2-ethylhexyl)phthalate	BRL	5.0									
Butyl benzyl phthalate	BRL	5.0									
Chrysene	BRL	5.0									
Di-n-butyl phthalate	BRL	5.0									
Di-n-octyl phthalate	BRL	5.0									
Dibenz(a,h)anthracene	BRL	5.0									
Diethyl phthalate	BRL	5.0									
Dimethyl phthalate	BRL	5.0									
Fluoranthene	BRL	5.0									
Fluorene	BRL	5.0									
Hexachlorobenzene	BRL	5.0									
Hexachlorobutadiene	BRL	5.0									
Hexachlorocyclopentadiene	BRL	5.0									
Hexachloroethane	BRL	5.0									
Indeno(1,2,3-cd)pyrene	BRL	5.0									
Isophorone	BRL	5.0									
N-Nitrosodi-n-propylamine	BRL	5.0									
N-Nitrosodimethylamine	BRL	5.0									
N-Nitrosodiphenylamine	BRL	5.0									
Naphthalene	BRL	5.0									
Nitrobenzene	BRL	5.0									
Pentachlorophenol	BRL	12									

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **MB-255879** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
SampleType: **MBLK** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8022725**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenanthrene	BRL	5.0									
Phenol	BRL	5.0									
Pyrene	BRL	5.0									
Surr: 2,4,6-Tribromophenol	38.52	0	50.00		77.0	51.4	138				
Surr: 2-Fluorobiphenyl	18.38	0	25.00		73.5	44.6	119				
Surr: 2-Fluorophenol	32.32	0	50.00		64.6	27.2	120				
Surr: 4-Terphenyl-d14	22.60	0	25.00		90.4	47.1	136				
Surr: Nitrobenzene-d5	18.19	0	25.00		72.7	40.7	119				
Surr: Phenol-d5	23.92	0	50.00		47.8	18.1	120				

Sample ID: **LCS-255879** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8022726**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	38.80	5.0	50.00		77.6	57.3	129.2				
1,2-Dichlorobenzene	38.58	5.0	50.00		77.2	48.6	112				
1,2-Diphenylhydrazine	56.40	5.0	100.0		56.4	39.8	120				
1,3-Dichlorobenzene	37.36	5.0	50.00		74.7	16.7	153.9				
1,4-Dichlorobenzene	37.82	5.0	50.00		75.6	37.3	105.7				
2,4,6-Trichlorophenol	51.27	5.0	50.00		103	52.4	129.2				
2,4-Dichlorophenol	49.30	5.0	50.00		98.6	52.5	121.7				
2,4-Dimethylphenol	45.38	5.0	50.00		90.8	41.8	109				
2,4-Dinitrophenol	34.46	12	50.00		68.9	1	172.9				
2,4-Dinitrotoluene	53.22	5.0	50.00		106	47.5	126.9				
2,6-Dinitrotoluene	53.36	5.0	50.00		107	68.1	136.7				
2-Chloronaphthalene	46.71	5.0	50.00		93.4	64.5	113.5				
2-Chlorophenol	48.50	5.0	50.00		97.0	36.2	120.4				
2-Nitrophenol	47.35	5.0	50.00		94.7	45	166.7				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **LCS-255879** Client ID:
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**
Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8022726**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
3,3´-Dichlorobenzidine	54.38	5.0	50.00		109	8.2	212.5				
4,6-Dinitro-2-methylphenol	41.52	10	50.00		83.0	53	100				
4-Bromophenyl phenyl ether	54.83	5.0	50.00		110	64.9	114.4				
4-Chloro-3-methylphenol	54.78	5.0	50.00		110	40.8	127.9				
4-Chlorophenyl phenyl ether	51.62	5.0	50.00		103	38.4	144.7				
4-Nitrophenol	22.74	12	50.00		45.5	13	106.5				
Acenaphthene	51.82	5.0	50.00		104	60.1	132.3				
Acenaphthylene	52.32	5.0	50.00		105	53.5	126				
Anthracene	57.40	5.0	50.00		115	43.4	118				
Benz(a)anthracene	58.64	5.0	50.00		117	41.8	133				
Benzidine	BRL	40	100.0		2.30	1	120				
Benzo(a)pyrene	55.94	5.0	50.00		112	31.7	148				
Benzo(b)fluoranthene	50.66	5.0	50.00		101	42	140.4				
Benzo(g,h,i)perylene	56.84	5.0	50.00		114	1	195				
Benzo(k)fluoranthene	56.44	5.0	50.00		113	25.2	145.7				
Bis(2-chloroethoxy)methane	50.67	5.0	50.00		101	49.2	164.7				
Bis(2-chloroethyl)ether	49.68	5.0	50.00		99.4	42.9	126				
Bis(2-chloroisopropyl)ether	50.70	5.0	50.00		101	62.8	138.6				
Bis(2-ethylhexyl)phthalate	58.23	5.0	50.00		116	28.9	136.88				
Butyl benzyl phthalate	57.74	5.0	50.00		115	1	139.9				
Chrysene	57.07	5.0	50.00		114	44.1	139.9				
Di-n-butyl phthalate	57.07	5.0	50.00		114	8.4	111				S
Di-n-octyl phthalate	56.55	5.0	50.00		113	18.6	131.8				
Dibenz(a,h)anthracene	55.56	5.0	50.00		111	1	199.7				
Diethyl phthalate	55.33	5.0	50.00		111	1	100				S
Dimethyl phthalate	53.73	5.0	50.00		107	1	100				S
Fluoranthene	57.96	5.0	50.00		116	42.9	121.3				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **LCS-255879** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
SampleType: **LCS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8022726**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Fluorene	53.06	5.0	50.00		106	71.6	108.4				
Hexachlorobenzene	53.04	5.0	50.00		106	7.8	141.5				
Hexachlorobutadiene	34.01	5.0	50.00		68.0	37.8	102.2				
Hexachlorocyclopentadiene	30.83	5.0	50.00		61.7	51.6	120				
Hexachloroethane	34.92	5.0	50.00		69.8	55.2	100				
Indeno(1,2,3-cd)pyrene	55.20	5.0	50.00		110	1	150.9				
Isophorone	49.97	5.0	50.00		99.9	46.6	180.2				
N-Nitrosodi-n-propylamine	52.14	5.0	50.00		104	13.6	197.9				
N-Nitrosodimethylamine	30.08	5.0	50.00		60.2	37.3	120				
N-Nitrosodiphenylamine	28.70	5.0	50.00		57.4	36.1	120				
Naphthalene	43.42	5.0	50.00		86.8	35.6	119.6				
Nitrobenzene	44.90	5.0	50.00		89.8	54.3	157.6				
Pentachlorophenol	30.44	12	50.00		60.9	38.1	151.8				
Phenanthrene	57.10	5.0	50.00		114	65.2	108.7				S
Phenol	28.04	5.0	50.00		56.1	16.6	100				
Pyrene	57.48	5.0	50.00		115	69.6	100				S
Surr: 2,4,6-Tribromophenol	52.48	0	50.00		105	51.4	138				
Surr: 2-Fluorobiphenyl	25.14	0	25.00		101	44.6	119				
Surr: 2-Fluorophenol	39.92	0	50.00		79.8	27.2	120				
Surr: 4-Terphenyl-d14	31.53	0	25.00		126	47.1	136				
Surr: Nitrobenzene-d5	24.28	0	25.00		97.1	40.7	119				
Surr: Phenol-d5	28.82	0	50.00		57.6	18.1	120				

Sample ID: **1802D26-001FMS** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8023690**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	BRL	50	100.0		45.7	44	142				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **1802D26-001FMS** Client ID:
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**
Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8023690**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2-Dichlorobenzene	BRL	50	100.0		44.6	32	129				
1,2-Diphenylhydrazine	69.00	50	200.0		34.5	21.3	120				
1,3-Dichlorobenzene	BRL	50	100.0		45.8	1	172				
1,4-Dichlorobenzene	BRL	50	100.0		45.0	20	124				
2,4,6-Trichlorophenol	60.55	50	100.0		60.6	37	144				
2,4-Dichlorophenol	51.30	50	100.0		51.3	39	135				
2,4-Dimethylphenol	55.15	50	100.0		55.2	32	119				
2,4-Dinitrophenol	BRL	130	100.0		0	1	191				S
2,4-Dinitrotoluene	58.80	50	100.0		58.8	39	139				
2,6-Dinitrotoluene	61.85	50	100.0		61.8	50	158				
2-Chloronaphthalene	53.60	50	100.0		53.6	60	118				S
2-Chlorophenol	51.45	50	100.0		51.4	23	134				
2-Nitrophenol	BRL	50	100.0		42.9	29	182				
3,3´-Dichlorobenzidine	BRL	50	100.0		44.7	1	262				
4,6-Dinitro-2-methylphenol	BRL	100	100.0		47.0	1	181				
4-Bromophenyl phenyl ether	64.45	50	100.0		64.4	53	127				
4-Chloro-3-methylphenol	67.40	50	100.0		67.4	22	147				
4-Chlorophenyl phenyl ether	65.85	50	100.0		65.8	25	158				
4-Nitrophenol	BRL	130	100.0		32.1	1	132				
Acenaphthene	61.55	50	100.0		61.6	47	145				
Acenaphthylene	63.10	50	100.0		63.1	33	145				
Anthracene	69.30	50	100.0		69.3	27	133				
Benz(a)anthracene	70.65	50	100.0		70.6	33	143				
Benzidine	BRL	400	200.0		0	1	120				S
Benzo(a)pyrene	64.45	50	100.0		64.4	17	163				
Benzo(b)fluoranthene	60.75	50	100.0		60.8	24	159				
Benzo(g,h,i)perylene	64.00	50	100.0		64.0	1	219				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **1802D26-001FMS** Client ID:
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**
Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8023690**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzo(k)fluoranthene	66.05	50	100.0		66.0	11	162				
Bis(2-chloroethoxy)methane	51.90	50	100.0		51.9	33	184				
Bis(2-chloroethyl)ether	BRL	50	100.0		49.8	12	158				
Bis(2-chloroisopropyl)ether	52.80	50	100.0		52.8	36	166				
Bis(2-ethylhexyl)phthalate	63.60	50	100.0		63.6	8	158				
Butyl benzyl phthalate	66.70	50	100.0		66.7	1	152				
Chrysene	68.15	50	100.0		68.2	17	168				
Di-n-butyl phthalate	66.70	50	100.0		66.7	1	118				
Di-n-octyl phthalate	59.85	50	100.0		59.8	4	146				
Dibenz(a,h)anthracene	63.35	50	100.0		63.4	1	227				
Diethyl phthalate	68.75	50	100.0		68.8	1	114				
Dimethyl phthalate	65.95	50	100.0		66.0	1	112				
Fluoranthene	70.10	50	100.0		70.1	26	137				
Fluorene	66.40	50	100.0		66.4	59	121				
Hexachlorobenzene	66.10	50	100.0		66.1	1	152				
Hexachlorobutadiene	BRL	50	100.0		42.8	24	116				
Hexachlorocyclopentadiene	BRL	50	100.0		0	1	127				S
Hexachloroethane	BRL	50	100.0		41.4	40	113				
Indeno(1,2,3-cd)pyrene	62.15	50	100.0		62.2	1	171				
Isophorone	53.85	50	100.0		53.8	21	196				
N-Nitrosodi-n-propylamine	54.00	50	100.0		54.0	1	230				
N-Nitrosodimethylamine	BRL	50	100.0		42.8	21.1	120				
N-Nitrosodiphenylamine	BRL	50	100.0		34.4	20.6	120				
Naphthalene	BRL	50	100.0		47.4	21	133				
Nitrobenzene	BRL	50	100.0		43.9	35	180				
Pentachlorophenol	BRL	130	100.0		0	14	176				S
Phenanthrene	69.80	50	100.0		69.8	54	120				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **1802D26-001FMS** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
SampleType: **MS** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8023690**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Phenol	BRL	50	100.0		40.4	5	112				
Pyrene	69.75	50	100.0		69.8	52	115				
Surr: 2,4,6-Tribromophenol	59.60	0	100.0		59.6	51.4	138				
Surr: 2-Fluorobiphenyl	26.50	0	50.00		53.0	44.6	119				
Surr: 2-Fluorophenol	47.95	0	100.0		48.0	27.2	120				
Surr: 4-Terphenyl-d14	36.10	0	50.00		72.2	47.1	136				
Surr: Nitrobenzene-d5	22.55	0	50.00		45.1	40.7	119				
Surr: Phenol-d5	39.25	0	100.0		39.2	18.1	120				

Sample ID: **1802D26-001FMSD** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625** BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8023693**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	53.20	50	100.0		53.2	44	142	45.70	15.2	28.1	
1,2-Dichlorobenzene	BRL	50	100.0		46.0	32	129	44.55	0	30.9	
1,2-Diphenylhydrazine	74.05	50	200.0		37.0	21.3	120	69.00	7.06	29.6	
1,3-Dichlorobenzene	BRL	50	100.0		43.8	1	172	45.85	0	41.7	
1,4-Dichlorobenzene	BRL	50	100.0		45.6	20	124	45.00	0	32.1	
2,4,6-Trichlorophenol	65.00	50	100.0		65.0	37	144	60.55	7.09	31.7	
2,4-Dichlorophenol	62.10	50	100.0		62.1	39	135	51.30	19.0	26.4	
2,4-Dimethylphenol	66.95	50	100.0		67.0	32	119	55.15	19.3	26.1	
2,4-Dinitrophenol	BRL	130	100.0		0	1	191	0	0	49.8	S
2,4-Dinitrotoluene	64.65	50	100.0		64.6	39	139	58.80	9.48	21.8	
2,6-Dinitrotoluene	68.55	50	100.0		68.6	50	158	61.85	10.3	29.6	
2-Chloronaphthalene	65.85	50	100.0		65.8	60	118	53.60	20.5	13	R
2-Chlorophenol	59.40	50	100.0		59.4	23	134	51.45	14.3	28.7	
2-Nitrophenol	56.55	50	100.0		56.6	29	182	42.90	27.5	35.2	
3,3´-Dichlorobenzidine	BRL	50	100.0		46.3	1	262	44.70	0	71.4	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **1802D26-001FMSD** Client ID:
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**
Units: **ug/L** Prep Date: **02/15/2018** Run No: **363112**
BatchID: **255879** Analysis Date: **02/15/2018** Seq No: **8023693**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
4,6-Dinitro-2-methylphenol	BRL	100	100.0		50.4	1	181	46.95	0	93.2	
4-Bromophenyl phenyl ether	70.50	50	100.0		70.5	53	127	64.45	8.97	23	
4-Chloro-3-methylphenol	72.20	50	100.0		72.2	22	147	67.40	6.88	37.2	
4-Chlorophenyl phenyl ether	69.00	50	100.0		69.0	25	158	65.85	4.67	33.4	
4-Nitrophenol	BRL	130	100.0		31.5	1	132	32.10	0	47.2	
Acenaphthene	69.90	50	100.0		69.9	47	145	61.55	12.7	27.6	
Acenaphthylene	72.20	50	100.0		72.2	33	145	63.10	13.5	40.2	
Anthracene	75.25	50	100.0		75.2	27	133	69.30	8.23	32	
Benz(a)anthracene	76.70	50	100.0		76.7	33	143	70.65	8.21	27.6	
Benzidine	BRL	400	200.0		0	1	120	0	0	100	S
Benzo(a)pyrene	73.60	50	100.0		73.6	17	163	64.45	13.3	39	
Benzo(b)fluoranthene	67.80	50	100.0		67.8	24	159	60.75	11.0	38.8	
Benzo(g,h,i)perylene	73.65	50	100.0		73.6	1	219	64.00	14.0	58.9	
Benzo(k)fluoranthene	76.00	50	100.0		76.0	11	162	66.05	14.0	32.3	
Bis(2-chloroethoxy)methane	63.70	50	100.0		63.7	33	184	51.90	20.4	34.5	
Bis(2-chloroethyl)ether	60.85	50	100.0		60.8	12	158	49.85	19.9	55	
Bis(2-chloroisopropyl)ether	62.70	50	100.0		62.7	36	166	52.80	17.1	46.3	
Bis(2-ethylhexyl)phthalate	71.90	50	100.0		71.9	8	158	63.60	12.3	41.1	
Butyl benzyl phthalate	73.30	50	100.0		73.3	1	152	66.70	9.43	23.4	
Chrysene	76.70	50	100.0		76.7	17	168	68.15	11.8	48.3	
Di-n-butyl phthalate	71.25	50	100.0		71.2	1	118	66.70	6.60	16.7	
Di-n-octyl phthalate	68.05	50	100.0		68.0	4	146	59.85	12.8	31.4	
Dibenz(a,h)anthracene	70.50	50	100.0		70.5	1	227	63.35	10.7	70	
Diethyl phthalate	72.40	50	100.0		72.4	1	114	68.75	5.17	26.5	
Dimethyl phthalate	70.85	50	100.0		70.8	1	112	65.95	7.16	23.2	
Fluoranthene	76.05	50	100.0		76.0	26	137	70.10	8.14	32.8	
Fluorene	71.30	50	100.0		71.3	59	121	66.40	7.12	20.7	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255879

Sample ID: **1802D26-001FMSD** Client ID:
SampleType: **MSD** TestCode: **PRIORITY POLLUTANT-SEMIVOLATILE ORGANICS E625**
Units: **ug/L** BatchID: **255879**
Prep Date: **02/15/2018** Analysis Date: **02/15/2018**
Run No: **363112** Seq No: **8023693**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Hexachlorobenzene	70.25	50	100.0		70.2	1	152	66.10	6.09	24.9	
Hexachlorobutadiene	BRL	50	100.0		47.6	24	116	42.85	0	26.3	
Hexachlorocyclopentadiene	BRL	50	100.0		29.8	1	127	0	0	88.1	
Hexachloroethane	BRL	50	100.0		43.0	40	113	41.45	0	24.5	
Indeno(1,2,3-cd)pyrene	71.95	50	100.0		72.0	1	171	62.15	14.6	44.6	
Isophorone	65.25	50	100.0		65.2	21	196	53.85	19.1	63.3	
N-Nitrosodi-n-propylamine	68.20	50	100.0		68.2	1	230	54.00	23.2	55.4	
N-Nitrosodimethylamine	BRL	50	100.0		47.6	21.1	120	42.80	0	42.7	
N-Nitrosodiphenylamine	BRL	50	100.0		37.6	20.6	120	34.35	0	18.3	
Naphthalene	56.90	50	100.0		56.9	21	133	47.40	18.2	30.1	
Nitrobenzene	51.20	50	100.0		51.2	35	180	43.90	15.4	39.3	
Pentachlorophenol	BRL	130	100.0		0	14	176	0	0	48.9	S
Phenanthrene	74.80	50	100.0		74.8	54	120	69.80	6.92	20.6	
Phenol	BRL	50	100.0		42.8	5	112	40.45	0	22.6	
Pyrene	75.50	50	100.0		75.5	52	115	69.75	7.92	25.2	
Surr: 2,4,6-Tribromophenol	67.05	0	100.0		67.0	51.4	138	59.60	0	0	
Surr: 2-Fluorobiphenyl	33.45	0	50.00		66.9	44.6	119	26.50	0	0	
Surr: 2-Fluorophenol	51.45	0	100.0		51.4	27.2	120	47.95	0	0	
Surr: 4-Terphenyl-d14	39.80	0	50.00		79.6	47.1	136	36.10	0	0	
Surr: Nitrobenzene-d5	29.25	0	50.00		58.5	40.7	119	22.55	0	0	
Surr: Phenol-d5	44.80	0	100.0		44.8	18.1	120	39.25	0	0	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255910

Sample ID: **MB-255910**	Client ID:			Units: **mg/L**	Prep Date: **02/15/2018**	Run No: **363086**
SampleType: **MBLK**	TestCode: **Total Cyanide (SM4500 CN-C, E)**			BatchID: **255910**	Analysis Date: **02/15/2018**	Seq No: **8021351**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010									

Sample ID: **LCS-255910**	Client ID:			Units: **mg/L**	Prep Date: **02/15/2018**	Run No: **363086**
SampleType: **LCS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**			BatchID: **255910**	Analysis Date: **02/15/2018**	Seq No: **8021352**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2710	0.010	0.2500		108	90	110				

Sample ID: **1802873-003AMS**	Client ID:			Units: **mg/L**	Prep Date: **02/15/2018**	Run No: **363086**
SampleType: **MS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**			BatchID: **255910**	Analysis Date: **02/15/2018**	Seq No: **8021358**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2490	0.010	0.2500		99.6	90	110				

Sample ID: **1802A08-006IMS**	Client ID: **EFF 3**			Units: **mg/L**	Prep Date: **02/16/2018**	Run No: **363086**
SampleType: **MS**	TestCode: **Total Cyanide (SM4500 CN-C, E)**			BatchID: **255910**	Analysis Date: **02/16/2018**	Seq No: **8023575**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2610	0.010	0.2500		104	90	110				

Sample ID: **1802873-003AMSD**	Client ID:			Units: **mg/L**	Prep Date: **02/15/2018**	Run No: **363086**
SampleType: **MSD**	TestCode: **Total Cyanide (SM4500 CN-C, E)**			BatchID: **255910**	Analysis Date: **02/15/2018**	Seq No: **8021359**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	0.2290	0.010	0.2500		91.6	90	110	0.2490	8.37	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255910

Sample ID: **1802E90-002ADUP** Client ID:
SampleType: **DUP** TestCode: **Total Cyanide (SM4500 CN-C, E)**
Units: **mg/L** Prep Date: **02/16/2018** Run No: **363086**
BatchID: **255910** Analysis Date: **02/16/2018** Seq No: **8023576**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Cyanide, Total	BRL	0.010						0	0	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255933

Sample ID: **MB-255933**	Client ID:				Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363167**
SampleType: **MBLK**	TestCode: **Residue, Suspended (TSS) by SM2540D**				BatchID: **255933**		Analysis Date: **02/15/2018**		Seq No: **8024671**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	BRL	5.0									

Sample ID: **1802D76-008EDUP**	Client ID:				Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363167**
SampleType: **DUP**	TestCode: **Residue, Suspended (TSS) by SM2540D**				BatchID: **255933**		Analysis Date: **02/15/2018**		Seq No: **8024673**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	39.00	10.0						40.00	2.53	5	

Sample ID: **1802D76-011EDUP**	Client ID:				Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363167**
SampleType: **DUP**	TestCode: **Residue, Suspended (TSS) by SM2540D**				BatchID: **255933**		Analysis Date: **02/15/2018**		Seq No: **8024686**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	282.0	10.0						290.0	2.80	5	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255950

Sample ID: **MB-255950**	Client ID:				Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363217**
SampleType: **MBLK**	TestCode: **Residue, Suspended (TSS) by SM2540D**				BatchID: **255950**		Analysis Date: **02/16/2018**		Seq No: **8026265**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	BRL	5.0									

Sample ID: **1802A00-001ADUP**	Client ID:				Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363217**
SampleType: **DUP**	TestCode: **Residue, Suspended (TSS) by SM2540D**				BatchID: **255950**		Analysis Date: **02/16/2018**		Seq No: **8026269**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	53.00	5.0						51.50	2.87	5	

Sample ID: **1802A52-002ADUP**	Client ID:				Units: **mg/L**		Prep Date: **02/15/2018**		Run No: **363217**
SampleType: **DUP**	TestCode: **Residue, Suspended (TSS) by SM2540D**				BatchID: **255950**		Analysis Date: **02/16/2018**		Seq No: **8026298**
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Residue, Suspended (TSS)	32.50	5.0						32.50	0	5	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255960

Sample ID: **MB-255960** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363194**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255960** Analysis Date: **02/15/2018** Seq No: **8023775**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255960

Sample ID: **MB-255960** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363194**
SampleType: **MBLK** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255960** Analysis Date: **02/15/2018** Seq No: **8023775**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	49.69	0	50.00		99.4	68	127				
Surr: Dibromofluoromethane	52.09	0	50.00		104	84.4	122				
Surr: Toluene-d8	50.42	0	50.00		101	80.1	116				

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255960

Sample ID: **LCS-255960** Client ID: Units: **ug/L** Prep Date: **02/15/2018** Run No: **363194**
SampleType: **LCS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255960** Analysis Date: **02/16/2018** Seq No: **8024052**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	62.46	5.0	50.00		125	69	136				
Benzene	53.28	5.0	50.00		107	73.7	126				
Chlorobenzene	55.85	5.0	50.00		112	73.5	124				
Toluene	53.84	5.0	50.00		108	76.8	125				
Trichloroethene	57.18	5.0	50.00		114	70.9	124				
Surr: 4-Bromofluorobenzene	51.09	0	50.00		102	68	127				
Surr: Dibromofluoromethane	49.71	0	50.00		99.4	84.4	122				
Surr: Toluene-d8	49.12	0	50.00		98.2	80.1	116				

Sample ID: **1802A08-002AMS** Client ID: **EFF 1** Units: **ug/L** Prep Date: **02/15/2018** Run No: **363194**
SampleType: **MS** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255960** Analysis Date: **02/16/2018** Seq No: **8023796**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	686.0	50	500.0		137	65.7	143				
Benzene	506.0	50	500.0		101	66.1	137				
Chlorobenzene	518.3	50	500.0		104	70.9	132				
Toluene	513.9	50	500.0		103	63.8	141				
Trichloroethene	541.2	50	500.0		108	70.6	128				
Surr: 4-Bromofluorobenzene	514.6	0	500.0		103	68	127				
Surr: Dibromofluoromethane	508.7	0	500.0		102	84.4	122				
Surr: Toluene-d8	498.8	0	500.0		99.8	80.1	116				

Sample ID: **1802A08-002AMSD** Client ID: **EFF 1** Units: **ug/L** Prep Date: **02/15/2018** Run No: **363194**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255960** Analysis Date: **02/16/2018** Seq No: **8023797**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	617.7	50	500.0		124	65.7	143	686.0	10.5	17.7	
Benzene	551.2	50	500.0		110	66.1	137	506.0	8.55	20	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: 255960

Sample ID: **1802A08-002AMSD** Client ID: **EFF 1** Units: **ug/L** Prep Date: **02/15/2018** Run No: **363194**
SampleType: **MSD** TestCode: **Volatile Organic Compounds by GC/MS SW8260B** BatchID: **255960** Analysis Date: **02/16/2018** Seq No: **8023797**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	565.4	50	500.0		113	70.9	132	518.3	8.69	20	
Toluene	553.5	50	500.0		111	63.8	141	513.9	7.42	20	
Trichloroethene	580.2	50	500.0		116	70.6	128	541.2	6.96	20	
Surr: 4-Bromofluorobenzene	511.7	0	500.0		102	68	127	514.6	0	0	
Surr: Dibromofluoromethane	520.3	0	500.0		104	84.4	122	508.7	0	0	
Surr: Toluene-d8	500.4	0	500.0		100	80.1	116	498.8	0	0	

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: R362855

Sample ID: **LCS-R362855**	Client ID:				Units: **pH Units**		Prep Date:		Run No: **362855**	
SampleType: **LCS**	TestCode: **Hydrogen Ion (pH) by SM4500 H+ B**				BatchID: **R362855**		Analysis Date: **02/12/2018**		Seq No: **8016040**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.000	0.0100	7.000		100	90	110				

Sample ID: **1802970-001ADUP**	Client ID:				Units: **pH Units**		Prep Date:		Run No: **362855**	
SampleType: **DUP**	TestCode: **Hydrogen Ion (pH) by SM4500 H+ B**				BatchID: **R362855**		Analysis Date: **02/12/2018**		Seq No: **8016044**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.180	0.0100						7.250	0.970	20	H

Sample ID: **1802A86-001BDUP**	Client ID:				Units: **pH Units**		Prep Date:		Run No: **362855**	
SampleType: **DUP**	TestCode: **Hydrogen Ion (pH) by SM4500 H+ B**				BatchID: **R362855**		Analysis Date: **02/13/2018**		Seq No: **8017891**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
pH	7.160	0.0100						7.170	0.140	20	H

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: ELOHI Engineering
Project Name: FMTC
Workorder: 1802A08

ANALYTICAL QC SUMMARY REPORT

BatchID: R363296

Sample ID: **MB-R363296**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363296**	
SampleType: **MBLK**	TestCode: **Alkalinity by SM2320B**				BatchID: **R363296**		Analysis Date: **02/15/2018**		Seq No: **8025805**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	BRL	3.00									

Sample ID: **LCS-R363296**	Client ID:				Units: **mg/L**		Prep Date:		Run No: **363296**	
SampleType: **LCS**	TestCode: **Alkalinity by SM2320B**				BatchID: **R363296**		Analysis Date: **02/15/2018**		Seq No: **8025806**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	124.0	3.00	125.0		99.2	75	125				

Sample ID: **1802A08-001GDUP**	Client ID: **INF 1**				Units: **mg/L**		Prep Date:		Run No: **363296**	
SampleType: **DUP**	TestCode: **Alkalinity by SM2320B**				BatchID: **R363296**		Analysis Date: **02/15/2018**		Seq No: **8025822**	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	167.0	3.00						168.0	0.597	30	

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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 14, 2018

Nicholas Fuller
CDM Smith Inc.

3200 Windy Hill Rd
Atlanta GA 30339

RE: Cedartown

Dear Nicholas Fuller: Order No: 1803314

Analytical Environmental Services, Inc. received 1 samples on 3/6/2018 7:31:00 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:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-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 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar

Ioana Pacurar

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1003314

Date: 3/5/18 Page 1 of 1

COMPANY:	ADDRESS:
CDM Smith	3200 Windy Hill Rd SE Suite 210 West Atlanta, GA 30339
PHONE: (404) 720-1400	EMAIL: fullernde@cdmsmith.com
SAMPLED BY: Nick Fuller	SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes) N	PRESERVATION (see codes) NA	ANALYSIS REQUESTED: Metals (200.8)	ANALYSIS REQUESTED: Metals (200.8)	REMARKS	Number of Containers
1	8 HR - 2	3/5/18	0915	X		GW		X				1
2	8 HR - 4	3/5/18	1130	X		GW		X				1
3	8 HR - 6	3/5/18	1340	X		GW		X				1
4	8 HR - 8	3/5/18	1530	X		GW		X				1
5	8 HR - Comp.	3/5/18	1530		X	GW	X					1
6												
7												
8												
9												
10												
11												
12												
13												
14												

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	3-6-18	1. M. Karanc	3/6/18 7:31
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:
* Place samples #1-4 on hold pending CDM Smith notice to analyze. *

SHIPMENT METHOD
OUT: / / VIA:
IN: (client) / / VIA:
FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: Cedartown
PROJECT #:
SITE ADDRESS: 811 West Ave
SEND REPORT TO: Nick Fuller / Jeff Weeber
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
fullernde@cdmsmith.com
WeeberJL@cdmsmith.com
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 5

Turnaround Time (TAT) Request
- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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 **Date:** 14-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	8 HR-COMP
Project Name:	Cedartown	**Collection Date:**	3/5/2018 3:30:00 PM
Lab ID:	1803314-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	0.0712		mg/L	256991	1	03/09/2018 11:26	DP
Cadmium	BRL	0.00240		mg/L	256991	1	03/09/2018 11:26	DP
Chromium	BRL	0.856		mg/L	256991	1	03/09/2018 11:26	DP
Copper	BRL	0.109		mg/L	256991	1	03/09/2018 11:26	DP
Lead	BRL	0.116		mg/L	256991	1	03/09/2018 11:26	DP
Molybdenum	BRL	0.0340		mg/L	256991	1	03/09/2018 11:26	DP
Nickel	BRL	0.0830		mg/L	256991	1	03/09/2018 11:26	DP
Selenium	BRL	0.0543		mg/L	256991	1	03/09/2018 11:26	DP
Silver	BRL	0.0190		mg/L	256991	1	03/09/2018 11:26	DP
Zinc	BRL	0.212		mg/L	256991	1	03/09/2018 11:26	DP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **CDM Smith** AES Work Order Number: **1803314**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 0.9 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 3/6/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	●		
26.	Were trip blanks submitted?	○	○	●	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). BU 3/7/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	●	○	○		
29.	Containers meet preservation guidelines?	●	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BU 3/7/18

Checklist 6.9.17 Rev 2

Locked

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1803314

ANALYTICAL QC SUMMARY REPORT

BatchID: 256991

Sample ID: **MB-256991** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364838**
SampleType: **MBLK** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/08/2018** Seq No: **8065091**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	BRL	0.00500									
Copper	BRL	0.00500									
Lead	BRL	0.00100									
Molybdenum	BRL	0.00500									
Nickel	BRL	0.00500									
Silver	BRL	0.00100									
Zinc	BRL	0.0100									

Sample ID: **MB-256991** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364928**
SampleType: **MBLK** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/09/2018** Seq No: **8066975**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	0.00500									
Cadmium	BRL	0.000700									
Selenium	BRL	0.00500									

Sample ID: **LCS-256991** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364838**
SampleType: **LCS** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/08/2018** Seq No: **8065092**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	0.1092	0.00500	0.1000		109	85	115				
Copper	0.1000	0.00500	0.1000	0.002740	97.3	85	115				
Lead	0.1037	0.00100	0.1000	0.0005391	103	85	115				
Molybdenum	0.1058	0.00500	0.1000	0.0002541	106	85	115				
Nickel	0.1102	0.00500	0.1000		110	85	115				
Silver	0.01056	0.00100	0.0100	0.00002555	105	85	115				
Zinc	0.1063	0.0100	0.1000	0.0007021	106	85	115				

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1803314

ANALYTICAL QC SUMMARY REPORT

BatchID: 256991

Sample ID: **LCS-256991** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364928**
SampleType: **LCS** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/09/2018** Seq No: **8066972**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.09790	0.00500	0.1000	0.0003199	97.6	85	115				
Cadmium	0.09756	0.000700	0.1000	0.0002780	97.3	85	115				
Selenium	0.09576	0.00500	0.1000		95.8	85	115				

Sample ID: **1803609-001AMS** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364838**
SampleType: **MS** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/08/2018** Seq No: **8065094**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	0.09681	0.00500	0.1000	0.002115	94.7	70	130				
Copper	0.1065	0.00500	0.1000	0.01424	92.3	70	130				
Lead	0.09552	0.00100	0.1000	0.0002312	95.3	70	130				
Molybdenum	0.1149	0.00500	0.1000	0.01199	103	70	130				
Nickel	0.3095	0.00500	0.1000	0.2154	94.1	70	130				
Silver	0.009999	0.00100	0.0100	0.00003084	99.7	70	130				
Zinc	0.2359	0.0100	0.1000	0.1357	100	70	130				

Sample ID: **1803609-001AMS** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364928**
SampleType: **MS** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/09/2018** Seq No: **8066977**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1024	0.00500	0.1000	0.001438	101	70	130				
Cadmium	0.09555	0.000700	0.1000	0.00008748	95.5	70	130				
Selenium	0.07194	0.00500	0.1000		71.9	70	130				

Sample ID: **1803609-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364838**
SampleType: **MSD** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/08/2018** Seq No: **8065095**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1803314

ANALYTICAL QC SUMMARY REPORT

BatchID: 256991

Sample ID: **1803609-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364838**
SampleType: **MSD** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/08/2018** Seq No: **8065095**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chromium	0.09678	0.00500	0.1000	0.002115	94.7	70	130	0.09681	0.028	20	
Copper	0.1084	0.00500	0.1000	0.01424	94.1	70	130	0.1065	1.75	20	
Lead	0.09614	0.00100	0.1000	0.0002312	95.9	70	130	0.09552	0.642	20	
Molybdenum	0.1155	0.00500	0.1000	0.01199	103	70	130	0.1149	0.463	20	
Nickel	0.3086	0.00500	0.1000	0.2154	93.1	70	130	0.3095	0.310	20	
Silver	0.009991	0.00100	0.0100	0.00003084	99.6	70	130	0.009999	0.085	20	
Zinc	0.2366	0.0100	0.1000	0.1357	101	70	130	0.2359	0.289	20	

Sample ID: **1803609-001AMSD** Client ID: Units: **mg/L** Prep Date: **03/07/2018** Run No: **364928**
SampleType: **MSD** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **256991** Analysis Date: **03/09/2018** Seq No: **8066978**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	0.1033	0.00500	0.1000	0.001438	102	70	130	0.1024	0.835	20	
Cadmium	0.1006	0.000700	0.1000	0.00008748	100	70	130	0.09555	5.11	20	
Selenium	0.07003	0.00500	0.1000		70.0	70	130	0.07194	2.70	20	

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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 29, 2018

Nicholas Fuller
CDM Smith Inc.

3200 Windy Hill Road #210 West
Atlanta GA 30339

RE: Cedartown

Dear Nicholas Fuller: Order No: 1803N81

Analytical Environmental Services, Inc. received 17 samples on 3/22/2018 7:00:00 PM
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:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-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 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar

Ioana Pacurar

Project Manager

Work Order: 1803N81

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Date: _____ Page 1 of 2

COMPANY: CDM Smith	ADDRESS: 3200 Windy Hill Rd SE Ste 210W Atlanta, GA 30339
PHONE: 404 720 1330	EMAIL: FullerND@cdmsmith.com
SAMPLED BY: Daniel Good / Nick Fuller	SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	GRAB	COMPOSITE	MATRIX (see codes)	VOCs	HCl	REMARKS	Number of Containers
1	Dup1	3-23-18	800	X		GW	X	X		
2	Influent		0908							
3	Effluent		0913							
4	EXP-2		0935							
5	EXP-3A		0922							
6	EXP-4A		0930							
7	EXP-7		0945							
8	MW-54C		0905							
9	EXP-6B		1030							
10	MW-56C		1140							
11	MW-12C		1250							
12	EXP-1		1450							
13	MW-7C		1550							
14	MW-28A		1107							

ANALYSIS REQUESTED

PRESERVATION (see codes)

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	3-21-18 1900	1.	3/22/18 700
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
client FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: Cedartown
PROJECT #:
SITE ADDRESS:
SEND REPORT TO: FullerND@cdmsmith.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

CHAIN OF CUSTODY

Work Order: 1803W81

Date: 3-21-18 Page 2 of 2

COMPANY: CDM Smith

ADDRESS: 3200 Windy Hill Rd SE ste 210W Atlanta, GA 30339

PHONE: 404 720 1330

EMAIL: FullerMD@cdmsmith.com

SAMPLED BY: Daniel Good

SIGNATURE: Daniel Good

ANALYSIS REQUESTED

VOCs

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes) HCl	REMARKS	Number of Containers
1	MW-24B	3-23-18	1138	✓		GW	✓		
2	EXP-5	3-23-18	1606	✓		WW	✓		
3									
4	Trip Blank								
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY: DATE/TIME:

1. Daniel Good 3-21-18 1900

2.

3.

RECEIVED BY: DATE/TIME:

1. Myfe Williams 3/21/18

2.

3.

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

client / FedEx UPS US mail courier Greyhound

other: _____

PROJECT INFORMATION

PROJECT NAME: Cedartown

PROJECT #:

SITE ADDRESS:

SEND REPORT TO: FullerMD@CDMSmith.com

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #: _____ PO#: _____

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request

- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____

E-mail? ☐ Fax? ☐

DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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

Client: CDM Smith Inc.
Project: Cedartown
Lab ID: 1803N81

Case Narrative

Sample Receiving Non-conformance:

All of the collection dates did not match the information between the labels and Chain of Custody. The Chain of Custody indicates 3/23/18, whereas the labels indicate 3/22/18. As the samples were received on 3/22/18, they were logged in according to the information on the labels.

Volatiles Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 1803N81-012A,-013A, & -015A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	DUP 1
Project Name:	Cedartown	**Collection Date:**	3/22/2018 8:00:00 AM
Lab ID:	1803N81-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
2-Butanone	BRL	50		ug/L	258001	1	03/27/2018 13:31	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/27/2018 13:31	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/27/2018 13:31	NP
Acetone	BRL	50		ug/L	258001	1	03/27/2018 13:31	NP
Benzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Chloroethane	BRL	10		ug/L	258001	1	03/27/2018 13:31	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Chloromethane	BRL	10		ug/L	258001	1	03/27/2018 13:31	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/27/2018 13:31	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Freon-113	BRL	10		ug/L	258001	1	03/27/2018 13:31	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	DUP 1
Project Name:	Cedartown	**Collection Date:**	3/22/2018 8:00:00 AM
Lab ID:	1803N81-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Toluene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Trichloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:31	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/27/2018 13:31	NP
Surr: 4-Bromofluorobenzene	73.6	68-127		%REC	258001	1	03/27/2018 13:31	NP
Surr: Dibromofluoromethane	99	84.4-122		%REC	258001	1	03/27/2018 13:31	NP
Surr: Toluene-d8	88.5	80.1-116		%REC	258001	1	03/27/2018 13:31	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	INFLUENT
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:08:00 AM
Lab ID:	1803N81-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	23	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,1-Dichloroethane	5.3	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,1-Dichloroethene	27	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
2-Butanone	BRL	50		ug/L	258001	1	03/27/2018 12:42	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/27/2018 12:42	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/27/2018 12:42	NP
Acetone	BRL	50		ug/L	258001	1	03/27/2018 12:42	NP
Benzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Chloroethane	BRL	10		ug/L	258001	1	03/27/2018 12:42	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Chloromethane	BRL	10		ug/L	258001	1	03/27/2018 12:42	NP
cis-1,2-Dichloroethene	830	50		ug/L	258001	10	03/27/2018 13:07	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/27/2018 12:42	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Freon-113	BRL	10		ug/L	258001	1	03/27/2018 12:42	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	INFLUENT
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:08:00 AM
Lab ID:	1803N81-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Toluene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
trans-1,2-Dichloroethene	12	5.0		ug/L	258001	1	03/27/2018 12:42	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Trichloroethene	490	50		ug/L	258001	10	03/27/2018 13:07	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:42	NP
Vinyl chloride	6.1	2.0		ug/L	258001	1	03/27/2018 12:42	NP
Surr: 4-Bromofluorobenzene	73.3	68-127		%REC	258001	10	03/27/2018 13:07	NP
Surr: 4-Bromofluorobenzene	75.2	68-127		%REC	258001	1	03/27/2018 12:42	NP
Surr: Dibromofluoromethane	97.8	84.4-122		%REC	258001	10	03/27/2018 13:07	NP
Surr: Dibromofluoromethane	99.9	84.4-122		%REC	258001	1	03/27/2018 12:42	NP
Surr: Toluene-d8	88	80.1-116		%REC	258001	1	03/27/2018 12:42	NP
Surr: Toluene-d8	88.5	80.1-116		%REC	258001	10	03/27/2018 13:07	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EFFLUENT
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:13:00 AM
Lab ID:	1803N81-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
2-Butanone	BRL	50		ug/L	258001	1	03/26/2018 17:25	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/26/2018 17:25	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/26/2018 17:25	NP
Acetone	BRL	50		ug/L	258001	1	03/26/2018 17:25	NP
Benzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Chloroethane	BRL	10		ug/L	258001	1	03/26/2018 17:25	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Chloromethane	BRL	10		ug/L	258001	1	03/26/2018 17:25	NP
cis-1,2-Dichloroethene	5.6	5.0		ug/L	258001	1	03/26/2018 17:25	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/26/2018 17:25	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Freon-113	BRL	10		ug/L	258001	1	03/26/2018 17:25	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EFFLUENT
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:13:00 AM
Lab ID:	1803N81-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Toluene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Trichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:25	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/26/2018 17:25	NP
Surr: 4-Bromofluorobenzene	74.2	68-127		%REC	258001	1	03/26/2018 17:25	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	258001	1	03/26/2018 17:25	NP
Surr: Toluene-d8	91.6	80.1-116		%REC	258001	1	03/26/2018 17:25	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-2
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:35:00 AM
Lab ID:	1803N81-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	31	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,1-Dichloroethane	8.4	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,1-Dichloroethene	22	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
2-Butanone	BRL	50		ug/L	258001	1	03/27/2018 15:31	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/27/2018 15:31	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/27/2018 15:31	NP
Acetone	BRL	50		ug/L	258001	1	03/27/2018 15:31	NP
Benzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Chloroethane	BRL	10		ug/L	258001	1	03/27/2018 15:31	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Chloromethane	BRL	10		ug/L	258001	1	03/27/2018 15:31	NP
cis-1,2-Dichloroethene	1700	100		ug/L	258001	20	03/26/2018 15:49	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/27/2018 15:31	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Freon-113	BRL	10		ug/L	258001	1	03/27/2018 15:31	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-2
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:35:00 AM
Lab ID:	1803N81-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Toluene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
trans-1,2-Dichloroethene	37	5.0		ug/L	258001	1	03/27/2018 15:31	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Trichloroethene	710	100		ug/L	258001	20	03/26/2018 15:49	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:31	NP
Vinyl chloride	11	2.0		ug/L	258001	1	03/27/2018 15:31	NP
Surr: 4-Bromofluorobenzene	74.7	68-127		%REC	258001	1	03/27/2018 15:31	NP
Surr: 4-Bromofluorobenzene	75.5	68-127		%REC	258001	20	03/26/2018 15:49	NP
Surr: Dibromofluoromethane	108	84.4-122		%REC	258001	20	03/26/2018 15:49	NP
Surr: Dibromofluoromethane	99.4	84.4-122		%REC	258001	1	03/27/2018 15:31	NP
Surr: Toluene-d8	89.9	80.1-116		%REC	258001	1	03/27/2018 15:31	NP
Surr: Toluene-d8	93	80.1-116		%REC	258001	20	03/26/2018 15:49	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-3A
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:22:00 AM
Lab ID:	1803N81-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	6.5	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,1-Dichloroethene	6.2	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
2-Butanone	BRL	50		ug/L	258001	1	03/27/2018 12:18	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/27/2018 12:18	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/27/2018 12:18	NP
Acetone	BRL	50		ug/L	258001	1	03/27/2018 12:18	NP
Benzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Chloroethane	BRL	10		ug/L	258001	1	03/27/2018 12:18	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Chloromethane	BRL	10		ug/L	258001	1	03/27/2018 12:18	NP
cis-1,2-Dichloroethene	150	5.0		ug/L	258001	1	03/27/2018 12:18	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/27/2018 12:18	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Freon-113	BRL	10		ug/L	258001	1	03/27/2018 12:18	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-3A
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:22:00 AM
Lab ID:	1803N81-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Toluene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Trichloroethene	130	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/27/2018 12:18	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/27/2018 12:18	NP
Surr: 4-Bromofluorobenzene	76.5	68-127		%REC	258001	1	03/27/2018 12:18	NP
Surr: Dibromofluoromethane	97.6	84.4-122		%REC	258001	1	03/27/2018 12:18	NP
Surr: Toluene-d8	89.3	80.1-116		%REC	258001	1	03/27/2018 12:18	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-4A
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:30:00 AM
Lab ID:	1803N81-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	20	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,1-Dichloroethene	31	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
2-Butanone	BRL	50		ug/L	258001	1	03/27/2018 15:56	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/27/2018 15:56	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/27/2018 15:56	NP
Acetone	BRL	50		ug/L	258001	1	03/27/2018 15:56	NP
Benzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Chloroethane	BRL	10		ug/L	258001	1	03/27/2018 15:56	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Chloromethane	BRL	10		ug/L	258001	1	03/27/2018 15:56	NP
cis-1,2-Dichloroethene	640	100		ug/L	258001	20	03/26/2018 16:37	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/27/2018 15:56	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Freon-113	BRL	10		ug/L	258001	1	03/27/2018 15:56	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-4A
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:30:00 AM
Lab ID:	1803N81-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Toluene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
trans-1,2-Dichloroethene	9.9	5.0		ug/L	258001	1	03/27/2018 15:56	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Trichloroethene	330	100		ug/L	258001	20	03/26/2018 16:37	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:56	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/27/2018 15:56	NP
Surr: 4-Bromofluorobenzene	73.3	68-127		%REC	258001	1	03/27/2018 15:56	NP
Surr: 4-Bromofluorobenzene	71	68-127		%REC	258001	20	03/26/2018 16:37	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	258001	20	03/26/2018 16:37	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	258001	1	03/27/2018 15:56	NP
Surr: Toluene-d8	88.8	80.1-116		%REC	258001	1	03/27/2018 15:56	NP
Surr: Toluene-d8	91.1	80.1-116		%REC	258001	20	03/26/2018 16:37	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-7
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:45:00 AM
Lab ID:	1803N81-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
2-Butanone	BRL	50		ug/L	258001	1	03/27/2018 13:55	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/27/2018 13:55	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/27/2018 13:55	NP
Acetone	BRL	50		ug/L	258001	1	03/27/2018 13:55	NP
Benzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Chloroethane	BRL	10		ug/L	258001	1	03/27/2018 13:55	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Chloromethane	BRL	10		ug/L	258001	1	03/27/2018 13:55	NP
cis-1,2-Dichloroethene	91	5.0		ug/L	258001	1	03/27/2018 13:55	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/27/2018 13:55	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Freon-113	BRL	10		ug/L	258001	1	03/27/2018 13:55	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-7
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:45:00 AM
Lab ID:	1803N81-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Toluene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Trichloroethene	820	100		ug/L	258001	20	03/26/2018 17:01	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/27/2018 13:55	NP
Vinyl chloride	6.0	2.0		ug/L	258001	1	03/27/2018 13:55	NP
Surr: 4-Bromofluorobenzene	75.7	68-127		%REC	258001	1	03/27/2018 13:55	NP
Surr: 4-Bromofluorobenzene	75.6	68-127		%REC	258001	20	03/26/2018 17:01	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	258001	20	03/26/2018 17:01	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	258001	1	03/27/2018 13:55	NP
Surr: Toluene-d8	88.7	80.1-116		%REC	258001	1	03/27/2018 13:55	NP
Surr: Toluene-d8	91.1	80.1-116		%REC	258001	20	03/26/2018 17:01	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-54C
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:05:00 AM
Lab ID:	1803N81-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
2-Butanone	BRL	50		ug/L	258001	1	03/26/2018 17:49	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/26/2018 17:49	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/26/2018 17:49	NP
Acetone	BRL	50		ug/L	258001	1	03/26/2018 17:49	NP
Benzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Chloroethane	BRL	10		ug/L	258001	1	03/26/2018 17:49	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Chloromethane	BRL	10		ug/L	258001	1	03/26/2018 17:49	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/26/2018 17:49	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Freon-113	BRL	10		ug/L	258001	1	03/26/2018 17:49	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-54C
Project Name:	Cedartown	**Collection Date:**	3/22/2018 9:05:00 AM
Lab ID:	1803N81-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Toluene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Trichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/26/2018 17:49	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/26/2018 17:49	NP
Surr: 4-Bromofluorobenzene	71.9	68-127		%REC	258001	1	03/26/2018 17:49	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	258001	1	03/26/2018 17:49	NP
Surr: Toluene-d8	91.4	80.1-116		%REC	258001	1	03/26/2018 17:49	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-6B
Project Name:	Cedartown	**Collection Date:**	3/22/2018 10:30:00 AM
Lab ID:	1803N81-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
2-Butanone	BRL	50		ug/L	258001	1	03/26/2018 18:13	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/26/2018 18:13	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/26/2018 18:13	NP
Acetone	BRL	50		ug/L	258001	1	03/26/2018 18:13	NP
Benzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Chloroethane	BRL	10		ug/L	258001	1	03/26/2018 18:13	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Chloromethane	BRL	10		ug/L	258001	1	03/26/2018 18:13	NP
cis-1,2-Dichloroethene	25	5.0		ug/L	258001	1	03/26/2018 18:13	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/26/2018 18:13	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Freon-113	BRL	10		ug/L	258001	1	03/26/2018 18:13	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-6B
Project Name:	Cedartown	**Collection Date:**	3/22/2018 10:30:00 AM
Lab ID:	1803N81-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Toluene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Trichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:13	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/26/2018 18:13	NP
Surr: 4-Bromofluorobenzene	74	68-127		%REC	258001	1	03/26/2018 18:13	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	258001	1	03/26/2018 18:13	NP
Surr: Toluene-d8	91.1	80.1-116		%REC	258001	1	03/26/2018 18:13	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-56C
Project Name:	Cedartown	**Collection Date:**	3/22/2018 11:40:00 AM
Lab ID:	1803N81-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,1-Dichloroethene	8.1	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
2-Butanone	BRL	50		ug/L	258001	1	03/27/2018 15:07	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/27/2018 15:07	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/27/2018 15:07	NP
Acetone	BRL	50		ug/L	258001	1	03/27/2018 15:07	NP
Benzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Chloroethane	BRL	10		ug/L	258001	1	03/27/2018 15:07	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Chloromethane	BRL	10		ug/L	258001	1	03/27/2018 15:07	NP
cis-1,2-Dichloroethene	450	250		ug/L	258001	50	03/26/2018 15:25	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/27/2018 15:07	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Freon-113	BRL	10		ug/L	258001	1	03/27/2018 15:07	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-56C
Project Name:	Cedartown	**Collection Date:**	3/22/2018 11:40:00 AM
Lab ID:	1803N81-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Toluene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Trichloroethene	8900	250		ug/L	258001	50	03/26/2018 15:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/27/2018 15:07	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/27/2018 15:07	NP
Surr: 4-Bromofluorobenzene	73.4	68-127		%REC	258001	50	03/26/2018 15:25	NP
Surr: 4-Bromofluorobenzene	75.7	68-127		%REC	258001	1	03/27/2018 15:07	NP
Surr: Dibromofluoromethane	105	84.4-122		%REC	258001	50	03/26/2018 15:25	NP
Surr: Dibromofluoromethane	95.1	84.4-122		%REC	258001	1	03/27/2018 15:07	NP
Surr: Toluene-d8	91.6	80.1-116		%REC	258001	50	03/26/2018 15:25	NP
Surr: Toluene-d8	89.1	80.1-116		%REC	258001	1	03/27/2018 15:07	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-12C
Project Name:	Cedartown	**Collection Date:**	3/22/2018 12:50:00 PM
Lab ID:	1803N81-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
2-Butanone	BRL	50		ug/L	258001	1	03/26/2018 18:37	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/26/2018 18:37	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/26/2018 18:37	NP
Acetone	BRL	50		ug/L	258001	1	03/26/2018 18:37	NP
Benzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Chloroethane	BRL	10		ug/L	258001	1	03/26/2018 18:37	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Chloromethane	BRL	10		ug/L	258001	1	03/26/2018 18:37	NP
cis-1,2-Dichloroethene	46	5.0		ug/L	258001	1	03/26/2018 18:37	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/26/2018 18:37	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Freon-113	BRL	10		ug/L	258001	1	03/26/2018 18:37	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-12C
Project Name:	Cedartown	**Collection Date:**	3/22/2018 12:50:00 PM
Lab ID:	1803N81-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Toluene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Trichloroethene	45	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/26/2018 18:37	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/26/2018 18:37	NP
Surr: 4-Bromofluorobenzene	73.1	68-127		%REC	258001	1	03/26/2018 18:37	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	258001	1	03/26/2018 18:37	NP
Surr: Toluene-d8	90.8	80.1-116		%REC	258001	1	03/26/2018 18:37	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-1
Project Name:	Cedartown	**Collection Date:**	3/22/2018 2:50:00 PM
Lab ID:	1803N81-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	2400	250		ug/L	258001	50	03/27/2018 16:20	NP
1,1,2,2-Tetrachloroethane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,1,2-Trichloroethane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,1-Dichloroethane	540	250		ug/L	258001	50	03/27/2018 16:20	NP
1,1-Dichloroethene	710	250		ug/L	258001	50	03/27/2018 16:20	NP
1,2,4-Trichlorobenzene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,2-Dibromo-3-chloropropane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,2-Dibromoethane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,2-Dichlorobenzene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,2-Dichloroethane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,2-Dichloropropane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,3-Dichlorobenzene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
1,4-Dichlorobenzene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
2-Butanone	BRL	2500		ug/L	258001	50	03/27/2018 16:20	NP
2-Hexanone	BRL	500		ug/L	258001	50	03/27/2018 16:20	NP
4-Methyl-2-pentanone	BRL	500		ug/L	258001	50	03/27/2018 16:20	NP
Acetone	BRL	2500		ug/L	258001	50	03/27/2018 16:20	NP
Benzene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Bromodichloromethane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Bromoform	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Bromomethane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Carbon disulfide	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Carbon tetrachloride	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Chlorobenzene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Chloroethane	BRL	500		ug/L	258001	50	03/27/2018 16:20	NP
Chloroform	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Chloromethane	BRL	500		ug/L	258001	50	03/27/2018 16:20	NP
cis-1,2-Dichloroethene	27000	2500		ug/L	258001	500	03/26/2018 14:13	NP
cis-1,3-Dichloropropene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Cyclohexane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Dibromochloromethane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Dichlorodifluoromethane	BRL	500		ug/L	258001	50	03/27/2018 16:20	NP
Ethylbenzene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Freon-113	BRL	500		ug/L	258001	50	03/27/2018 16:20	NP
Isopropylbenzene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
m,p-Xylene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Methyl acetate	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Methyl tert-butyl ether	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Methylcyclohexane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Methylene chloride	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
o-Xylene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-1
Project Name:	Cedartown	**Collection Date:**	3/22/2018 2:50:00 PM
Lab ID:	1803N81-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B (SW5030B)								
Styrene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Tetrachloroethene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Toluene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
trans-1,2-Dichloroethene	420	250		ug/L	258001	50	03/27/2018 16:20	NP
trans-1,3-Dichloropropene	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Trichloroethene	2100	250		ug/L	258001	50	03/27/2018 16:20	NP
Trichlorofluoromethane	BRL	250		ug/L	258001	50	03/27/2018 16:20	NP
Vinyl chloride	BRL	100		ug/L	258001	50	03/27/2018 16:20	NP
Surr: 4-Bromofluorobenzene	74.6	68-127		%REC	258001	50	03/27/2018 16:20	NP
Surr: 4-Bromofluorobenzene	74.9	68-127		%REC	258001	500	03/26/2018 14:13	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	258001	50	03/27/2018 16:20	NP
Surr: Dibromofluoromethane	104	84.4-122		%REC	258001	500	03/26/2018 14:13	NP
Surr: Toluene-d8	90.2	80.1-116		%REC	258001	50	03/27/2018 16:20	NP
Surr: Toluene-d8	92.1	80.1-116		%REC	258001	500	03/26/2018 14:13	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-7C
Project Name:	Cedartown	**Collection Date:**	3/22/2018 3:50:00 PM
Lab ID:	1803N81-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,1,2,2-Tetrachloroethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,1,2-Trichloroethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,1-Dichloroethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,1-Dichloroethene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,2,4-Trichlorobenzene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,2-Dibromo-3-chloropropane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,2-Dibromoethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,2-Dichlorobenzene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,2-Dichloroethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,2-Dichloropropane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,3-Dichlorobenzene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
1,4-Dichlorobenzene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
2-Butanone	BRL	25000		ug/L	258001	500	03/26/2018 14:37	NP
2-Hexanone	BRL	5000		ug/L	258001	500	03/26/2018 14:37	NP
4-Methyl-2-pentanone	BRL	5000		ug/L	258001	500	03/26/2018 14:37	NP
Acetone	BRL	25000		ug/L	258001	500	03/26/2018 14:37	NP
Benzene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Bromodichloromethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Bromoform	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Bromomethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Carbon disulfide	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Carbon tetrachloride	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Chlorobenzene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Chloroethane	BRL	5000		ug/L	258001	500	03/26/2018 14:37	NP
Chloroform	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Chloromethane	BRL	5000		ug/L	258001	500	03/26/2018 14:37	NP
cis-1,2-Dichloroethene	85000	2500		ug/L	258001	500	03/26/2018 14:37	NP
cis-1,3-Dichloropropene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Cyclohexane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Dibromochloromethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Dichlorodifluoromethane	BRL	5000		ug/L	258001	500	03/26/2018 14:37	NP
Ethylbenzene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Freon-113	BRL	5000		ug/L	258001	500	03/26/2018 14:37	NP
Isopropylbenzene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
m,p-Xylene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Methyl acetate	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Methyl tert-butyl ether	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Methylcyclohexane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Methylene chloride	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
o-Xylene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-7C
Project Name:	Cedartown	**Collection Date:**	3/22/2018 3:50:00 PM
Lab ID:	1803N81-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Tetrachloroethene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Toluene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
trans-1,2-Dichloroethene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
trans-1,3-Dichloropropene	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Trichloroethene	72000	2500		ug/L	258001	500	03/26/2018 14:37	NP
Trichlorofluoromethane	BRL	2500		ug/L	258001	500	03/26/2018 14:37	NP
Vinyl chloride	BRL	1000		ug/L	258001	500	03/26/2018 14:37	NP
Surr: 4-Bromofluorobenzene	74.2	68-127		%REC	258001	500	03/26/2018 14:37	NP
Surr: Dibromofluoromethane	101	84.4-122		%REC	258001	500	03/26/2018 14:37	NP
Surr: Toluene-d8	90.8	80.1-116		%REC	258001	500	03/26/2018 14:37	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-28A
Project Name:	Cedartown	**Collection Date:**	3/22/2018 11:07:00 AM
Lab ID:	1803N81-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
2-Butanone	BRL	50		ug/L	258001	1	03/26/2018 19:01	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/26/2018 19:01	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/26/2018 19:01	NP
Acetone	BRL	50		ug/L	258001	1	03/26/2018 19:01	NP
Benzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Chloroethane	BRL	10		ug/L	258001	1	03/26/2018 19:01	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Chloromethane	BRL	10		ug/L	258001	1	03/26/2018 19:01	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/26/2018 19:01	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Freon-113	BRL	10		ug/L	258001	1	03/26/2018 19:01	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-28A
Project Name:	Cedartown	**Collection Date:**	3/22/2018 11:07:00 AM
Lab ID:	1803N81-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Toluene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Trichloroethene	9.6	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:01	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/26/2018 19:01	NP
Surr: 4-Bromofluorobenzene	74.4	68-127		%REC	258001	1	03/26/2018 19:01	NP
Surr: Dibromofluoromethane	107	84.4-122		%REC	258001	1	03/26/2018 19:01	NP
Surr: Toluene-d8	95.2	80.1-116		%REC	258001	1	03/26/2018 19:01	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-24B
Project Name:	Cedartown	**Collection Date:**	3/22/2018 11:38:00 AM
Lab ID:	1803N81-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,1,2,2-Tetrachloroethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,1,2-Trichloroethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,1-Dichloroethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,1-Dichloroethene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,2,4-Trichlorobenzene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,2-Dibromo-3-chloropropane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,2-Dibromoethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,2-Dichlorobenzene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,2-Dichloroethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,2-Dichloropropane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,3-Dichlorobenzene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
1,4-Dichlorobenzene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
2-Butanone	BRL	50000		ug/L	258001	1000	03/26/2018 12:37	NP
2-Hexanone	BRL	10000		ug/L	258001	1000	03/26/2018 12:37	NP
4-Methyl-2-pentanone	BRL	10000		ug/L	258001	1000	03/26/2018 12:37	NP
Acetone	BRL	50000		ug/L	258001	1000	03/26/2018 12:37	NP
Benzene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Bromodichloromethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Bromoform	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Bromomethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Carbon disulfide	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Carbon tetrachloride	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Chlorobenzene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Chloroethane	BRL	10000		ug/L	258001	1000	03/26/2018 12:37	NP
Chloroform	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Chloromethane	BRL	10000		ug/L	258001	1000	03/26/2018 12:37	NP
cis-1,2-Dichloroethene	120000	5000		ug/L	258001	1000	03/26/2018 12:37	NP
cis-1,3-Dichloropropene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Cyclohexane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Dibromochloromethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Dichlorodifluoromethane	BRL	10000		ug/L	258001	1000	03/26/2018 12:37	NP
Ethylbenzene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Freon-113	BRL	10000		ug/L	258001	1000	03/26/2018 12:37	NP
Isopropylbenzene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
m,p-Xylene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Methyl acetate	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Methyl tert-butyl ether	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Methylcyclohexane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Methylene chloride	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
o-Xylene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	MW-24B
Project Name:	Cedartown	**Collection Date:**	3/22/2018 11:38:00 AM
Lab ID:	1803N81-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Tetrachloroethene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Toluene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
trans-1,2-Dichloroethene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
trans-1,3-Dichloropropene	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Trichloroethene	58000	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Trichlorofluoromethane	BRL	5000		ug/L	258001	1000	03/26/2018 12:37	NP
Vinyl chloride	BRL	2000		ug/L	258001	1000	03/26/2018 12:37	NP
Surr: 4-Bromofluorobenzene	75.9	68-127		%REC	258001	1000	03/26/2018 12:37	NP
Surr: Dibromofluoromethane	102	84.4-122		%REC	258001	1000	03/26/2018 12:37	NP
Surr: Toluene-d8	91.8	80.1-116		%REC	258001	1000	03/26/2018 12:37	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-5
Project Name:	Cedartown	**Collection Date:**	3/22/2018 4:06:00 PM
Lab ID:	1803N81-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
2-Butanone	BRL	50		ug/L	258001	1	03/26/2018 19:25	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/26/2018 19:25	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/26/2018 19:25	NP
Acetone	BRL	50		ug/L	258001	1	03/26/2018 19:25	NP
Benzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Chloroethane	BRL	10		ug/L	258001	1	03/26/2018 19:25	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Chloromethane	BRL	10		ug/L	258001	1	03/26/2018 19:25	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/26/2018 19:25	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Freon-113	BRL	10		ug/L	258001	1	03/26/2018 19:25	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-5
Project Name:	Cedartown	**Collection Date:**	3/22/2018 4:06:00 PM
Lab ID:	1803N81-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Toluene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Trichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/26/2018 19:25	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/26/2018 19:25	NP
Surr: 4-Bromofluorobenzene	73.8	68-127		%REC	258001	1	03/26/2018 19:25	NP
Surr: Dibromofluoromethane	103	84.4-122		%REC	258001	1	03/26/2018 19:25	NP
Surr: Toluene-d8	89.4	80.1-116		%REC	258001	1	03/26/2018 19:25	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Cedartown	**Collection Date:**	3/22/2018
Lab ID:	1803N81-017	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,1,2-Trichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,1-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,1-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,2-Dibromoethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,2-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,2-Dichloroethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,2-Dichloropropane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,3-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
1,4-Dichlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
2-Butanone	BRL	50		ug/L	258001	1	03/26/2018 11:00	NP
2-Hexanone	BRL	10		ug/L	258001	1	03/26/2018 11:00	NP
4-Methyl-2-pentanone	BRL	10		ug/L	258001	1	03/26/2018 11:00	NP
Acetone	BRL	50		ug/L	258001	1	03/26/2018 11:00	NP
Benzene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Bromodichloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Bromoform	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Bromomethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Carbon disulfide	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Carbon tetrachloride	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Chlorobenzene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Chloroethane	BRL	10		ug/L	258001	1	03/26/2018 11:00	NP
Chloroform	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Chloromethane	BRL	10		ug/L	258001	1	03/26/2018 11:00	NP
cis-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
cis-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Cyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Dibromochloromethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Dichlorodifluoromethane	BRL	10		ug/L	258001	1	03/26/2018 11:00	NP
Ethylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Freon-113	BRL	10		ug/L	258001	1	03/26/2018 11:00	NP
Isopropylbenzene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
m,p-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Methyl acetate	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Methyl tert-butyl ether	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Methylcyclohexane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Methylene chloride	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
o-Xylene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 29-Mar-18

Client:	CDM Smith Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Cedartown	**Collection Date:**	3/22/2018
Lab ID:	1803N81-017	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Tetrachloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Toluene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
trans-1,2-Dichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
trans-1,3-Dichloropropene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Trichloroethene	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Trichlorofluoromethane	BRL	5.0		ug/L	258001	1	03/26/2018 11:00	NP
Vinyl chloride	BRL	2.0		ug/L	258001	1	03/26/2018 11:00	NP
Surr: 4-Bromofluorobenzene	74.4	68-127		%REC	258001	1	03/26/2018 11:00	NP
Surr: Dibromofluoromethane	98.9	84.4-122		%REC	258001	1	03/26/2018 11:00	NP
Surr: Toluene-d8	89.8	80.1-116		%REC	258001	1	03/26/2018 11:00	NP

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: INFLUENT				**Lab ID:** 1803N81-002			
Collection Date: 3/22/2018 9:08:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	23		0.30	5.0	ug/L	258001	1
1,1-Dichloroethane	5.3		0.43	5.0	ug/L	258001	1
1,1-Dichloroethene	27		0.40	5.0	ug/L	258001	1
cis-1,2-Dichloroethene	830		2.8	50	ug/L	258001	10
trans-1,2-Dichloroethene	12		0.30	5.0	ug/L	258001	1
Trichloroethene	490		3.0	50	ug/L	258001	10
Vinyl chloride	6.1		0.30	2.0	ug/L	258001	1
Client Sample ID: EFFLUENT				**Lab ID:** 1803N81-003			
Collection Date: 3/22/2018 9:13:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	5.6		0.28	5.0	ug/L	258001	1
Client Sample ID: EXP-2				**Lab ID:** 1803N81-004			
Collection Date: 3/22/2018 9:35:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	31		0.30	5.0	ug/L	258001	1
1,1-Dichloroethane	8.4		0.43	5.0	ug/L	258001	1
1,1-Dichloroethene	22		0.40	5.0	ug/L	258001	1
cis-1,2-Dichloroethene	1700		5.6	100	ug/L	258001	20
trans-1,2-Dichloroethene	37		0.30	5.0	ug/L	258001	1
Trichloroethene	710		6.1	100	ug/L	258001	20
Vinyl chloride	11		0.30	2.0	ug/L	258001	1
Client Sample ID: EXP-3A				**Lab ID:** 1803N81-005			
Collection Date: 3/22/2018 9:22:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	6.5		0.30	5.0	ug/L	258001	1
1,1-Dichloroethene	6.2		0.40	5.0	ug/L	258001	1
cis-1,2-Dichloroethene	150		0.28	5.0	ug/L	258001	1
Trichloroethene	130		0.30	5.0	ug/L	258001	1
Client Sample ID: EXP-4A				**Lab ID:** 1803N81-006			
Collection Date: 3/22/2018 9:30:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	20		0.30	5.0	ug/L	258001	1
1,1-Dichloroethene	31		0.40	5.0	ug/L	258001	1
cis-1,2-Dichloroethene	640		5.6	100	ug/L	258001	20
trans-1,2-Dichloroethene	9.9		0.30	5.0	ug/L	258001	1
Trichloroethene	330		6.1	100	ug/L	258001	20
Client Sample ID: EXP-7				**Lab ID:** 1803N81-007			
Collection Date: 3/22/2018 9:45:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	91		0.28	5.0	ug/L	258001	1
Trichloroethene	820		6.1	100	ug/L	258001	20
Vinyl chloride	6.0		0.30	2.0	ug/L	258001	1
Client Sample ID: EXP-6B				**Lab ID:** 1803N81-009			
Collection Date: 3/22/2018 10:30:00 AM				**Matrix:** Groundwater			

Analytical Environmental Services, Inc

Date: 29-Mar-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: EXP-6B				**Lab ID:** 1803N81-009			
Collection Date: 3/22/2018 10:30:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	25		0.28	5.0	ug/L	258001	1
Client Sample ID: MW-56C				**Lab ID:** 1803N81-010			
Collection Date: 3/22/2018 11:40:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1-Dichloroethene	8.1		0.40	5.0	ug/L	258001	1
cis-1,2-Dichloroethene	450		14	250	ug/L	258001	50
Trichloroethene	8900		15	250	ug/L	258001	50
Client Sample ID: MW-12C				**Lab ID:** 1803N81-011			
Collection Date: 3/22/2018 12:50:00 PM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	46		0.28	5.0	ug/L	258001	1
Trichloroethene	45		0.30	5.0	ug/L	258001	1
Client Sample ID: EXP-1				**Lab ID:** 1803N81-012			
Collection Date: 3/22/2018 2:50:00 PM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	2400		15	250	ug/L	258001	50
1,1-Dichloroethane	540		21	250	ug/L	258001	50
1,1-Dichloroethene	710		20	250	ug/L	258001	50
cis-1,2-Dichloroethene	27000		140	2500	ug/L	258001	500
trans-1,2-Dichloroethene	420		15	250	ug/L	258001	50
Trichloroethene	2100		15	250	ug/L	258001	50
Client Sample ID: MW-7C				**Lab ID:** 1803N81-013			
Collection Date: 3/22/2018 3:50:00 PM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	85000		140	2500	ug/L	258001	500
Trichloroethene	72000		150	2500	ug/L	258001	500
Client Sample ID: MW-28A				**Lab ID:** 1803N81-014			
Collection Date: 3/22/2018 11:07:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
Trichloroethene	9.6		0.30	5.0	ug/L	258001	1
Client Sample ID: MW-24B				**Lab ID:** 1803N81-015			
Collection Date: 3/22/2018 11:38:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
cis-1,2-Dichloroethene	120000		280	5000	ug/L	258001	1000
Trichloroethene	58000		300	5000	ug/L	258001	1000

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Clear | Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **CDM Smith** AES Work Order Number: **1803N81**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 0.8 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments:

I certify that I have completed sections 1-15 (dated initials). MJ 3/22/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	○	●	○	incomplete info ☐ illegible ☐ no label ☐ other ■	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	●	○	○	listed on COC ■ not listed on COC ☐	

27. Comments:

I certify that I have completed sections 16-27 (dated initials). BU 3/23/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). BU 3/23/18

Locked

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1803N81

ANALYTICAL QC SUMMARY REPORT

BatchID: 258001

Sample ID: **MB-258001**	Client ID:		Units: **ug/L**	Prep Date: **03/26/2018**	Run No: **366326**
SampleType: **MBLK**	TestCode: **TCL VOLATILE ORGANICS SW8260B**		BatchID: **258001**	Analysis Date: **03/26/2018**	Seq No: **8102630**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1803N81

ANALYTICAL QC SUMMARY REPORT

BatchID: 258001

Sample ID: **MB-258001** Client ID: Units: **ug/L** Prep Date: **03/26/2018** Run No: **366326**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **258001** Analysis Date: **03/26/2018** Seq No: **8102630**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	38.73	0	50.00		77.5	68	127				
Surr: Dibromofluoromethane	49.93	0	50.00		99.9	84.4	122				
Surr: Toluene-d8	45.04	0	50.00		90.1	80.1	116				

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1803N81

ANALYTICAL QC SUMMARY REPORT

BatchID: 258001

Sample ID: **LCS-258001** Client ID: Units: **ug/L** Prep Date: **03/26/2018** Run No: **366326**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **258001** Analysis Date: **03/26/2018** Seq No: **8102627**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	51.00	5.0	50.00		102	69	136				
Benzene	43.95	5.0	50.00		87.9	73.7	126				
Chlorobenzene	54.78	5.0	50.00		110	73.5	124				
Toluene	45.81	5.0	50.00		91.6	76.8	125				
Trichloroethene	47.44	5.0	50.00		94.9	70.9	124				
Surr: 4-Bromofluorobenzene	37.81	0	50.00		75.6	68	127				
Surr: Dibromofluoromethane	47.73	0	50.00		95.5	84.4	122				
Surr: Toluene-d8	43.85	0	50.00		87.7	80.1	116				

Sample ID: **1803N81-015AMS** Client ID: **MW-24B** Units: **ug/L** Prep Date: **03/26/2018** Run No: **366326**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **258001** Analysis Date: **03/26/2018** Seq No: **8102693**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	65840	5000	50000	1820	128	65.7	143				
Benzene	47840	5000	50000		95.7	66.1	137				
Chlorobenzene	58290	5000	50000		117	70.9	132				
Toluene	50410	5000	50000		101	63.8	141				
Trichloroethene	121200	5000	50000	57780	127	70.6	128				
Surr: 4-Bromofluorobenzene	36370	0	50000		72.7	68	127				
Surr: Dibromofluoromethane	50470	0	50000		101	84.4	122				
Surr: Toluene-d8	45210	0	50000		90.4	80.1	116				

Sample ID: **1803N81-015AMSD** Client ID: **MW-24B** Units: **ug/L** Prep Date: **03/26/2018** Run No: **366326**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **258001** Analysis Date: **03/26/2018** Seq No: **8102697**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	61910	5000	50000	1820	120	65.7	143	65840	6.15	17.7	
Benzene	50520	5000	50000		101	66.1	137	47840	5.45	20	

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1803N81

ANALYTICAL QC SUMMARY REPORT

BatchID: 258001

Sample ID: **1803N81-015AMSD** Client ID: **MW-24B** Units: **ug/L** Prep Date: **03/26/2018** Run No: **366326**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **258001** Analysis Date: **03/26/2018** Seq No: **8102697**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	63730	5000	50000		127	70.9	132	58290	8.92	20	
Toluene	53600	5000	50000		107	63.8	141	50410	6.13	20	
Trichloroethene	125500	5000	50000	57780	135	70.6	128	121200	3.48	20	S
Surr: 4-Bromofluorobenzene	38040	0	50000		76.1	68	127	36370	0	0	
Surr: Dibromofluoromethane	50550	0	50000		101	84.4	122	50470	0	0	
Surr: Toluene-d8	44800	0	50000		89.6	80.1	116	45210	0	0	

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		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

May 02, 2018

Nicholas Fuller
CDM Smith Inc.

3200 Windy Hill Road #210 West
Atlanta GA 30339

RE: Cedartown

Dear Nicholas Fuller: Order No: 1804Q70

Analytical Environmental Services, Inc. received 7 samples on 4/27/2018 1:15:00 PM
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:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-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 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar

Ioana Pacurar

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

AES

CHAIN OF CUSTODY

Work Order: 1804070

Date: _____ Page 1 of 1

COMPANY: CDM Smith	ADDRESS: 3200 Windy Hill Rd SE Ste 210 W Atlanta, GA 30339
PHONE: 404 720 1330	EMAIL: fullerND@CDMSmith.com
SAMPLED BY: David Good	SIGNATURE: David Good

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	ANALYSIS REQUESTED: VOCs	PRESERVATION (see codes)	REMARKS	Number of Containers
1	EXP-3A	4-27-18	1040	V		GW	V	V		
2	EXP-4A		1045							
3	EXP-7		1023							
4	Comb. Inf.		1025							
5	Effluent		1027							
6	EXP-2		1055							
7										
8	Trip blank						V			
9										
10										
11										
12										
13										
14										

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. David Good	4-27-18 13B	1. Monique E Hoheiser	4/27/2018 1:15pm
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / / VIA:
IN: / / VIA:
(client) FedEx UPS US mail courier Greyhound
other: _____

PROJECT INFORMATION
PROJECT NAME: Cedartown
PROJECT #:
SITE ADDRESS: 850
SEND REPORT TO: fullerND@cdmsmith.com
INVOICE TO:
(IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time (TAT) Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? ☐ Fax? ☐
DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements 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

Client: CDM Smith Inc.
Project: Cedartown
Lab ID: 1804Q70

Case Narrative

Volatile Organic Compounds Analysis by Method 8260B:

Acetone value for sample 1804Q70-006A is "E" qualified indicating an estimated value over linear calibration range. Sample was diluted and reanalyzed with analyte being below reporting limit.

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-3A
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:40:00 AM
Lab ID:	1804Q70-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	8.6	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,1,2-Trichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,1-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,1-Dichloroethene	8.5	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,2-Dibromoethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,2-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,2-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,2-Dichloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,3-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
1,4-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
2-Butanone	BRL	50		ug/L	260048	1	05/01/2018 15:51	CC
2-Hexanone	BRL	10		ug/L	260048	1	05/01/2018 15:51	CC
4-Methyl-2-pentanone	BRL	10		ug/L	260048	1	05/01/2018 15:51	CC
Acetone	BRL	50		ug/L	260048	1	05/01/2018 15:51	CC
Benzene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Bromodichloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Bromoform	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Bromomethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Carbon disulfide	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Carbon tetrachloride	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Chlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Chloroethane	BRL	10		ug/L	260048	1	05/01/2018 15:51	CC
Chloroform	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Chloromethane	BRL	10		ug/L	260048	1	05/01/2018 15:51	CC
cis-1,2-Dichloroethene	360	50		ug/L	260048	10	05/01/2018 19:55	CC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Cyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Dibromochloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Dichlorodifluoromethane	BRL	10		ug/L	260048	1	05/01/2018 15:51	CC
Ethylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Freon-113	BRL	10		ug/L	260048	1	05/01/2018 15:51	CC
Isopropylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
m,p-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Methyl acetate	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Methylcyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Methylene chloride	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
o-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-3A
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:40:00 AM
Lab ID:	1804Q70-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Tetrachloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Toluene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
trans-1,2-Dichloroethene	6.2	5.0		ug/L	260048	1	05/01/2018 15:51	CC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Trichloroethene	250	50		ug/L	260048	10	05/01/2018 19:55	CC
Trichlorofluoromethane	BRL	5.0		ug/L	260048	1	05/01/2018 15:51	CC
Vinyl chloride	BRL	2.0		ug/L	260048	1	05/01/2018 15:51	CC
Surr: 4-Bromofluorobenzene	93.9	68-127		%REC	260048	1	05/01/2018 15:51	CC
Surr: 4-Bromofluorobenzene	92	68-127		%REC	260048	10	05/01/2018 19:55	CC
Surr: Dibromofluoromethane	104	84.4-122		%REC	260048	10	05/01/2018 19:55	CC
Surr: Dibromofluoromethane	114	84.4-122		%REC	260048	1	05/01/2018 15:51	CC
Surr: Toluene-d8	96.2	80.1-116		%REC	260048	1	05/01/2018 15:51	CC
Surr: Toluene-d8	90	80.1-116		%REC	260048	10	05/01/2018 19:55	CC

Qualifiers:

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- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-4A
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:45:00 AM
Lab ID:	1804Q70-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	25	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,1,2-Trichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,1-Dichloroethane	5.3	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,1-Dichloroethene	29	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,2-Dibromoethane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,2-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,2-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,2-Dichloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,3-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
1,4-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
2-Butanone	BRL	50		ug/L	260048	1	05/01/2018 16:18	CC
2-Hexanone	BRL	10		ug/L	260048	1	05/01/2018 16:18	CC
4-Methyl-2-pentanone	BRL	10		ug/L	260048	1	05/01/2018 16:18	CC
Acetone	BRL	50		ug/L	260048	1	05/01/2018 16:18	CC
Benzene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Bromodichloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Bromoform	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Bromomethane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Carbon disulfide	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Carbon tetrachloride	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Chlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Chloroethane	BRL	10		ug/L	260048	1	05/01/2018 16:18	CC
Chloroform	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Chloromethane	BRL	10		ug/L	260048	1	05/01/2018 16:18	CC
cis-1,2-Dichloroethene	760	50		ug/L	260048	10	05/01/2018 17:13	CC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Cyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Dibromochloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Dichlorodifluoromethane	BRL	10		ug/L	260048	1	05/01/2018 16:18	CC
Ethylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Freon-113	BRL	10		ug/L	260048	1	05/01/2018 16:18	CC
Isopropylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
m,p-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Methyl acetate	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Methylcyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Methylene chloride	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
o-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-4A
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:45:00 AM
Lab ID:	1804Q70-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Tetrachloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Toluene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
trans-1,2-Dichloroethene	12	5.0		ug/L	260048	1	05/01/2018 16:18	CC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Trichloroethene	420	50		ug/L	260048	10	05/01/2018 17:13	CC
Trichlorofluoromethane	BRL	5.0		ug/L	260048	1	05/01/2018 16:18	CC
Vinyl chloride	BRL	2.0		ug/L	260048	1	05/01/2018 16:18	CC
Surr: 4-Bromofluorobenzene	90.8	68-127		%REC	260048	1	05/01/2018 16:18	CC
Surr: 4-Bromofluorobenzene	95.7	68-127		%REC	260048	10	05/01/2018 17:13	CC
Surr: Dibromofluoromethane	106	84.4-122		%REC	260048	1	05/01/2018 16:18	CC
Surr: Dibromofluoromethane	106	84.4-122		%REC	260048	10	05/01/2018 17:13	CC
Surr: Toluene-d8	88	80.1-116		%REC	260048	1	05/01/2018 16:18	CC
Surr: Toluene-d8	90.5	80.1-116		%REC	260048	10	05/01/2018 17:13	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-7
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:23:00 AM
Lab ID:	1804Q70-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,1,2-Trichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,1-Dichloroethane	6.1	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,1-Dichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,2-Dibromoethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,2-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,2-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,2-Dichloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,3-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
1,4-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
2-Butanone	BRL	50		ug/L	260048	1	05/01/2018 18:34	CC
2-Hexanone	BRL	10		ug/L	260048	1	05/01/2018 18:34	CC
4-Methyl-2-pentanone	BRL	10		ug/L	260048	1	05/01/2018 18:34	CC
Acetone	BRL	50		ug/L	260048	1	05/01/2018 18:34	CC
Benzene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Bromodichloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Bromoform	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Bromomethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Carbon disulfide	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Carbon tetrachloride	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Chlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Chloroethane	BRL	10		ug/L	260048	1	05/01/2018 18:34	CC
Chloroform	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Chloromethane	BRL	10		ug/L	260048	1	05/01/2018 18:34	CC
cis-1,2-Dichloroethene	120	5.0		ug/L	260048	1	05/01/2018 18:34	CC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Cyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Dibromochloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Dichlorodifluoromethane	BRL	10		ug/L	260048	1	05/01/2018 18:34	CC
Ethylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Freon-113	BRL	10		ug/L	260048	1	05/01/2018 18:34	CC
Isopropylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
m,p-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Methyl acetate	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Methylcyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Methylene chloride	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
o-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-7
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:23:00 AM
Lab ID:	1804Q70-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Tetrachloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Toluene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Trichloroethene	290	50		ug/L	260048	10	05/01/2018 19:01	CC
Trichlorofluoromethane	BRL	5.0		ug/L	260048	1	05/01/2018 18:34	CC
Vinyl chloride	5.6	2.0		ug/L	260048	1	05/01/2018 18:34	CC
Surr: 4-Bromofluorobenzene	90.3	68-127		%REC	260048	10	05/01/2018 19:01	CC
Surr: 4-Bromofluorobenzene	98.6	68-127		%REC	260048	1	05/01/2018 18:34	CC
Surr: Dibromofluoromethane	110	84.4-122		%REC	260048	1	05/01/2018 18:34	CC
Surr: Dibromofluoromethane	109	84.4-122		%REC	260048	10	05/01/2018 19:01	CC
Surr: Toluene-d8	87.3	80.1-116		%REC	260048	10	05/01/2018 19:01	CC
Surr: Toluene-d8	89.6	80.1-116		%REC	260048	1	05/01/2018 18:34	CC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	COMBO INF
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:25:00 AM
Lab ID:	1804Q70-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	13	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,1,2-Trichloroethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,1-Dichloroethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,1-Dichloroethene	16	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,2-Dibromoethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,2-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,2-Dichloroethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,2-Dichloropropane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,3-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
1,4-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
2-Butanone	BRL	50		ug/L	260048	1	05/02/2018 13:09	CC
2-Hexanone	BRL	10		ug/L	260048	1	05/02/2018 13:09	CC
4-Methyl-2-pentanone	BRL	10		ug/L	260048	1	05/02/2018 13:09	CC
Acetone	BRL	50		ug/L	260048	1	05/02/2018 13:09	CC
Benzene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Bromodichloromethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Bromoform	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Bromomethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Carbon disulfide	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Carbon tetrachloride	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Chlorobenzene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Chloroethane	BRL	10		ug/L	260048	1	05/02/2018 13:09	CC
Chloroform	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Chloromethane	BRL	10		ug/L	260048	1	05/02/2018 13:09	CC
cis-1,2-Dichloroethene	510	250		ug/L	260048	50	05/01/2018 19:28	CC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Cyclohexane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Dibromochloromethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Dichlorodifluoromethane	BRL	10		ug/L	260048	1	05/02/2018 13:09	CC
Ethylbenzene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Freon-113	BRL	10		ug/L	260048	1	05/02/2018 13:09	CC
Isopropylbenzene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
m,p-Xylene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Methyl acetate	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Methylcyclohexane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Methylene chloride	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
o-Xylene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	COMBO INF
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:25:00 AM
Lab ID:	1804Q70-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Tetrachloroethene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Toluene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
trans-1,2-Dichloroethene	6.8	5.0		ug/L	260048	1	05/02/2018 13:09	CC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Trichloroethene	470	250		ug/L	260048	50	05/01/2018 19:28	CC
Trichlorofluoromethane	BRL	5.0		ug/L	260048	1	05/02/2018 13:09	CC
Vinyl chloride	BRL	2.0		ug/L	260048	1	05/02/2018 13:09	CC
Surr: 4-Bromofluorobenzene	98.9	68-127		%REC	260048	50	05/01/2018 19:28	CC
Surr: 4-Bromofluorobenzene	91.6	68-127		%REC	260048	1	05/02/2018 13:09	CC
Surr: Dibromofluoromethane	109	84.4-122		%REC	260048	50	05/01/2018 19:28	CC
Surr: Dibromofluoromethane	108	84.4-122		%REC	260048	1	05/02/2018 13:09	CC
Surr: Toluene-d8	95.9	80.1-116		%REC	260048	50	05/01/2018 19:28	CC
Surr: Toluene-d8	88.9	80.1-116		%REC	260048	1	05/02/2018 13:09	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EFFLUENT
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:27:00 AM
Lab ID:	1804Q70-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,1,2-Trichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,1-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,1-Dichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,2-Dibromoethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,2-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,2-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,2-Dichloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,3-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
1,4-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
2-Butanone	BRL	50		ug/L	260048	1	05/01/2018 14:31	CC
2-Hexanone	BRL	10		ug/L	260048	1	05/01/2018 14:31	CC
4-Methyl-2-pentanone	BRL	10		ug/L	260048	1	05/01/2018 14:31	CC
Acetone	BRL	50		ug/L	260048	1	05/01/2018 14:31	CC
Benzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Bromodichloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Bromoform	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Bromomethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Carbon disulfide	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Carbon tetrachloride	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Chlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Chloroethane	BRL	10		ug/L	260048	1	05/01/2018 14:31	CC
Chloroform	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Chloromethane	BRL	10		ug/L	260048	1	05/01/2018 14:31	CC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Cyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Dibromochloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Dichlorodifluoromethane	BRL	10		ug/L	260048	1	05/01/2018 14:31	CC
Ethylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Freon-113	BRL	10		ug/L	260048	1	05/01/2018 14:31	CC
Isopropylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
m,p-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Methyl acetate	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Methylcyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Methylene chloride	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
o-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EFFLUENT
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:27:00 AM
Lab ID:	1804Q70-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Tetrachloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Toluene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Trichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Trichlorofluoromethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:31	CC
Vinyl chloride	BRL	2.0		ug/L	260048	1	05/01/2018 14:31	CC
Surr: 4-Bromofluorobenzene	95.5	68-127		%REC	260048	1	05/01/2018 14:31	CC
Surr: Dibromofluoromethane	106	84.4-122		%REC	260048	1	05/01/2018 14:31	CC
Surr: Toluene-d8	89.4	80.1-116		%REC	260048	1	05/01/2018 14:31	CC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-2
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:55:00 AM
Lab ID:	1804Q70-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	110	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,1,2-Trichloroethane	9.2	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,1-Dichloroethane	79	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,1-Dichloroethene	180	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,2-Dibromoethane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,2-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,2-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,2-Dichloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,3-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
1,4-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
2-Butanone	BRL	50		ug/L	260048	1	05/01/2018 17:40	CC
2-Hexanone	BRL	10		ug/L	260048	1	05/01/2018 17:40	CC
4-Methyl-2-pentanone	BRL	10		ug/L	260048	1	05/01/2018 17:40	CC
Acetone	690	50	E	ug/L	260048	1	05/01/2018 17:40	CC
Benzene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Bromodichloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Bromoform	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Bromomethane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Carbon disulfide	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Carbon tetrachloride	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Chlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Chloroethane	BRL	10		ug/L	260048	1	05/01/2018 17:40	CC
Chloroform	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Chloromethane	BRL	10		ug/L	260048	1	05/01/2018 17:40	CC
cis-1,2-Dichloroethene	34000	2500		ug/L	260048	500	05/02/2018 13:36	CC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Cyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Dibromochloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Dichlorodifluoromethane	BRL	10		ug/L	260048	1	05/01/2018 17:40	CC
Ethylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Freon-113	BRL	10		ug/L	260048	1	05/01/2018 17:40	CC
Isopropylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
m,p-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Methyl acetate	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Methylcyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Methylene chloride	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
o-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	EXP-2
Project Name:	Cedartown	**Collection Date:**	4/27/2018 10:55:00 AM
Lab ID:	1804Q70-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Tetrachloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Toluene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
trans-1,2-Dichloroethene	100	5.0		ug/L	260048	1	05/01/2018 17:40	CC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Trichloroethene	20000	2500		ug/L	260048	500	05/02/2018 13:36	CC
Trichlorofluoromethane	BRL	5.0		ug/L	260048	1	05/01/2018 17:40	CC
Vinyl chloride	140	2.0		ug/L	260048	1	05/01/2018 17:40	CC
Surr: 4-Bromofluorobenzene	92.6	68-127		%REC	260048	500	05/02/2018 13:36	CC
Surr: 4-Bromofluorobenzene	101	68-127		%REC	260048	1	05/01/2018 17:40	CC
Surr: Dibromofluoromethane	107	84.4-122		%REC	260048	500	05/02/2018 13:36	CC
Surr: Dibromofluoromethane	108	84.4-122		%REC	260048	1	05/01/2018 17:40	CC
Surr: Toluene-d8	89.2	80.1-116		%REC	260048	500	05/02/2018 13:36	CC
Surr: Toluene-d8	82.6	80.1-116		%REC	260048	1	05/01/2018 17:40	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Cedartown	**Collection Date:**	4/27/2018
Lab ID:	1804Q70-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
1,1,1-Trichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,1,2-Trichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,1-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,1-Dichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,2-Dibromoethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,2-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,2-Dichloroethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,2-Dichloropropane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,3-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
1,4-Dichlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
2-Butanone	BRL	50		ug/L	260048	1	05/01/2018 14:04	CC
2-Hexanone	BRL	10		ug/L	260048	1	05/01/2018 14:04	CC
4-Methyl-2-pentanone	BRL	10		ug/L	260048	1	05/01/2018 14:04	CC
Acetone	BRL	50		ug/L	260048	1	05/01/2018 14:04	CC
Benzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Bromodichloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Bromoform	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Bromomethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Carbon disulfide	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Carbon tetrachloride	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Chlorobenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Chloroethane	BRL	10		ug/L	260048	1	05/01/2018 14:04	CC
Chloroform	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Chloromethane	BRL	10		ug/L	260048	1	05/01/2018 14:04	CC
cis-1,2-Dichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
cis-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Cyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Dibromochloromethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Dichlorodifluoromethane	BRL	10		ug/L	260048	1	05/01/2018 14:04	CC
Ethylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Freon-113	BRL	10		ug/L	260048	1	05/01/2018 14:04	CC
Isopropylbenzene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
m,p-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Methyl acetate	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Methyl tert-butyl ether	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Methylcyclohexane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Methylene chloride	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
o-Xylene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 2-May-18

Client:	CDM Smith Inc.	**Client Sample ID:**	TRIP BLANK
Project Name:	Cedartown	**Collection Date:**	4/27/2018
Lab ID:	1804Q70-007	**Matrix:**	Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**				
Styrene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Tetrachloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Toluene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
trans-1,2-Dichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
trans-1,3-Dichloropropene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Trichloroethene	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Trichlorofluoromethane	BRL	5.0		ug/L	260048	1	05/01/2018 14:04	CC
Vinyl chloride	BRL	2.0		ug/L	260048	1	05/01/2018 14:04	CC
Surr: 4-Bromofluorobenzene	98.9	68-127		%REC	260048	1	05/01/2018 14:04	CC
Surr: Dibromofluoromethane	110	84.4-122		%REC	260048	1	05/01/2018 14:04	CC
Surr: Toluene-d8	94	80.1-116		%REC	260048	1	05/01/2018 14:04	CC

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc

Date: 2-May-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor
Client Sample ID: EXP-3A				**Lab ID:** 1804Q70-001			
Collection Date: 4/27/2018 10:40:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	8.6		0.30	5.0	ug/L	260048	1
1,1-Dichloroethene	8.5		0.40	5.0	ug/L	260048	1
cis-1,2-Dichloroethene	360		2.8	50	ug/L	260048	10
trans-1,2-Dichloroethene	6.2		0.30	5.0	ug/L	260048	1
Trichloroethene	250		3.0	50	ug/L	260048	10
Client Sample ID: EXP-4A				**Lab ID:** 1804Q70-002			
Collection Date: 4/27/2018 10:45:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	25		0.30	5.0	ug/L	260048	1
1,1-Dichloroethane	5.3		0.43	5.0	ug/L	260048	1
1,1-Dichloroethene	29		0.40	5.0	ug/L	260048	1
cis-1,2-Dichloroethene	760		2.8	50	ug/L	260048	10
trans-1,2-Dichloroethene	12		0.30	5.0	ug/L	260048	1
Trichloroethene	420		3.0	50	ug/L	260048	10
Client Sample ID: EXP-7				**Lab ID:** 1804Q70-003			
Collection Date: 4/27/2018 10:23:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1-Dichloroethane	6.1		0.43	5.0	ug/L	260048	1
cis-1,2-Dichloroethene	120		0.28	5.0	ug/L	260048	1
Trichloroethene	290		3.0	50	ug/L	260048	10
Vinyl chloride	5.6		0.30	2.0	ug/L	260048	1
Client Sample ID: COMBO INF				**Lab ID:** 1804Q70-004			
Collection Date: 4/27/2018 10:25:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	13		0.30	5.0	ug/L	260048	1
1,1-Dichloroethene	16		0.40	5.0	ug/L	260048	1
cis-1,2-Dichloroethene	510		14	250	ug/L	260048	50
trans-1,2-Dichloroethene	6.8		0.30	5.0	ug/L	260048	1
Trichloroethene	470		15	250	ug/L	260048	50
Client Sample ID: EXP-2				**Lab ID:** 1804Q70-006			
Collection Date: 4/27/2018 10:55:00 AM				**Matrix:** Groundwater			
TCL VOLATILE ORGANICS SW8260B				**(SW5030B)**			
1,1,1-Trichloroethane	110		0.30	5.0	ug/L	260048	1
1,1,2-Trichloroethane	9.2		0.43	5.0	ug/L	260048	1
1,1-Dichloroethane	79		0.43	5.0	ug/L	260048	1
1,1-Dichloroethene	180		0.40	5.0	ug/L	260048	1
Acetone	690	E	3.6	50	ug/L	260048	1
cis-1,2-Dichloroethene	34000		140	2500	ug/L	260048	500
trans-1,2-Dichloroethene	100		0.30	5.0	ug/L	260048	1
Trichloroethene	20000		150	2500	ug/L	260048	500
Vinyl chloride	140		0.30	2.0	ug/L	260048	1

Qualifiers:
* Value exceeds maximum contaminant level
BRL Below reporting limit
E Estimated (value above quantitation range)
S Spike Recovery outside limits due to matrix

Analytical Environmental Services, Inc

Date: 2-May-18

SUMMARY OF ANALYTES DETECTED

Analyses	Result	Qual	MDL	Reporting Limit	Units	BatchID	Dilution Factor

H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Clear Save as

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **CDM Smith Inc.** AES Work Order Number: **1804Q70**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ Courier ■ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 1.4 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). AJJ 4/27/18

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	●	○	○		
26.	Were trip blanks submitted?	●	○	○	listed on COC ■ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). MDP 4/28/18

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	○	○	●		
29.	Containers meet preservation guidelines?	○	○	●		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). MDP 4/28/18

Checklist 6.9.17 Rev 2

Locked

Client: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1804Q70

ANALYTICAL QC SUMMARY REPORT

BatchID: 260048

Sample ID: **MB-260048** Client ID: Units: **ug/L** Prep Date: **05/01/2018** Run No: **369166**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **260048** Analysis Date: **05/01/2018** Seq No: **8178267**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2-Butanone	BRL	50									
2-Hexanone	BRL	10									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Benzene	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1804Q70

ANALYTICAL QC SUMMARY REPORT

BatchID: 260048

Sample ID: **MB-260048** Client ID: Units: **ug/L** Prep Date: **05/01/2018** Run No: **369166**
SampleType: **MBLK** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **260048** Analysis Date: **05/01/2018** Seq No: **8178267**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	5.0									
Methyl acetate	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
o-Xylene	BRL	5.0									
Styrene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl chloride	BRL	2.0									
Surr: 4-Bromofluorobenzene	43.30	0	50.00		86.6	68	127				
Surr: Dibromofluoromethane	49.93	0	50.00		99.9	84.4	122				
Surr: Toluene-d8	50.80	0	50.00		102	80.1	116				

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1804Q70

ANALYTICAL QC SUMMARY REPORT

BatchID: 260048

Sample ID: **LCS-260048** Client ID: Units: **ug/L** Prep Date: **05/01/2018** Run No: **369166**
SampleType: **LCS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **260048** Analysis Date: **05/01/2018** Seq No: **8178268**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	57.51	5.0	50.00		115	69	136				
Benzene	49.61	5.0	50.00		99.2	73.7	126				
Chlorobenzene	46.90	5.0	50.00		93.8	73.5	124				
Toluene	50.62	5.0	50.00		101	76.8	125				
Trichloroethene	49.42	5.0	50.00		98.8	70.9	124				
Surr: 4-Bromofluorobenzene	45.67	0	50.00		91.3	68	127				
Surr: Dibromofluoromethane	48.48	0	50.00		97.0	84.4	122				
Surr: Toluene-d8	50.34	0	50.00		101	80.1	116				

Sample ID: **1804O05-003AMS** Client ID: Units: **ug/L** Prep Date: **05/01/2018** Run No: **369166**
SampleType: **MS** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **260048** Analysis Date: **05/01/2018** Seq No: **8178270**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1421	100	1000		142	65.7	143				
Benzene	1196	100	1000		120	66.1	137				
Chlorobenzene	1092	100	1000		109	70.9	132				
Toluene	1191	100	1000		119	63.8	141				
Trichloroethene	1323	100	1000	118.0	120	70.6	128				
Surr: 4-Bromofluorobenzene	876.0	0	1000		87.6	68	127				
Surr: Dibromofluoromethane	966.4	0	1000		96.6	84.4	122				
Surr: Toluene-d8	1005	0	1000		101	80.1	116				

Sample ID: **1804O05-003AMSD** Client ID: Units: **ug/L** Prep Date: **05/01/2018** Run No: **369166**
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B** BatchID: **260048** Analysis Date: **05/01/2018** Seq No: **8178271**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
1,1-Dichloroethene	1341	100	1000		134	65.7	143	1421	5.84	17.7	
Benzene	1210	100	1000		121	66.1	137	1196	1.18	20	

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: CDM Smith Inc.
Project Name: Cedartown
Workorder: 1804Q70

ANALYTICAL QC SUMMARY REPORT

BatchID: 260048

Sample ID: **1804O05-003AMSD** Client ID:
SampleType: **MSD** TestCode: **TCL VOLATILE ORGANICS SW8260B**
Units: **ug/L** Prep Date: **05/01/2018** Run No: **369166**
BatchID: **260048** Analysis Date: **05/01/2018** Seq No: **8178271**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chlorobenzene	1121	100	1000		112	70.9	132	1092	2.69	20	
Toluene	1212	100	1000		121	63.8	141	1191	1.75	20	
Trichloroethene	1363	100	1000	118.0	124	70.6	128	1323	2.96	20	
Surr: 4-Bromofluorobenzene	876.8	0	1000		87.7	68	127	876.0	0	0	
Surr: Dibromofluoromethane	973.0	0	1000		97.3	84.4	122	966.4	0	0	
Surr: Toluene-d8	1012	0	1000		101	80.1	116	1005	0	0	

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
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