



**CONESTOGA-ROVERS
& ASSOCIATES**

3075 Breckinridge Blvd., Suite 470. Duluth, GA 30096
Telephone: (770) 441-0027 Fax: (770) 441-2050
www.CRAworld.com

August 13, 2013

Reference No. 035029

Mr. Jason Metzger
Unit Manager
Response and Remediation Program
Environmental Protection Division
2 Martin Luther King Junior Drive, SE
Suite 1462, East Tower
Atlanta, Georgia 30334

Dear Mr. Metzger:

Re: Status Update
Arivec Chemicals Property - HSI No. 10123
7962 Huey Road, Douglas County, Douglasville, Georgia

Conestoga-Rovers & Associates, Inc. (CRA) has prepared the following update to our November 2012 Interim Progress Report on behalf of the Arivec Chemicals Site PRP Group (Group).

1.0 GROUNDWATER SAMPLING

A groundwater sampling event was conducted in February/March 2013 as proposed. The groundwater sampling event and associated results are described in Attachment A.

2.0 SOIL TREATABILITY STUDY

Bulk soil samples for performance of a bench scale treatability study were collected from the Site in mid-December 2012 and shipped to CRA's treatability laboratory in Niagara Falls, New York.

The objectives of the bench scale study were to gather the data necessary to:

- Assess the effectiveness of ISCO with catalyzed sodium persulfate for treatment of constituents of concern in representative soil samples from the Site.
- Assess the Total Oxidant Demand (TOD) in the treatment areas.
- Assess the potential for metals solubilization as a result of ISCO.
- Determine the optimum concentration/dosage of oxidant required to complete treatment as expeditiously as possible.
- Assess the effectiveness of In Situ Stabilization (ISS) for stabilizing soil and/or constituents of concern in the soil.

Equal
Employment Opportunity
Employer

REGISTERED COMPANY FOR
ISO 9001
ENGINEERING DESIGN



August 13, 2013

Reference No. 035029

-2-

- Assess the optimum solidification reagents and dosages for soil stabilization.

The bench scale study was expanded to include additional reagents and increased dosages of selected reagents. The study is substantially complete and the results will be used to assess various remedial options for soil. The results of the study will be provided under separate cover. Preliminary results are presented below.

Task 1: Initial Characterization

Soil samples for treatability testing in the bench scale study were collected as described in the Interim Progress Report dated November 2012; Figure 10 of the report illustrates the sample locations. In general, these samples represent areas with the greatest degree of impact just above or within the water table. Three composite samples were collected for the bench scale study. Samples were comprised of equal aliquots from the locations designated below:

Soil Sample 1:

B-117, 6-11 feet below grade consisting of clay and clayey sand.

B-118, 9-16 feet below grade consisting of clay with medium plasticity.

Soil Sample 2:

B-106, 8-13 feet below grade consisting of sandy clay.

B-90, 6-11 feet below grade consisting of clay and some sand.

B-115, 10-15 feet below grade consisting of clay with trace sand.

Soil Sample 3:

B-113, 12-17 feet below grade consisting of silty sand.

B-84, 11-16 feet below grade consisting of clay and some clayey sand.

The soil samples were analyzed for the following parameters:

- pH;
- Percent Solids;
- Volatile Organic Compounds (VOC); and
- Simulated Precipitation Leaching Procedure (SPLP) VOC.

Task 2: Chemical Oxidation Microcosm Tests

In order to evaluate the effectiveness of catalyzed sodium persulfate for the treatment of the constituents of concern at the Site, a series of microcosm tests were conducted. The soil microcosm tests were set up using 100-gram (g) soil samples of homogenized soil. The tests assessed the effectiveness of catalyzed sodium persulfate for treatment of the chemistry in the



August 13, 2013

Reference No. 035029

-3-

soil and to determine the optimum concentration range to be used for the full-scale application. The general findings were as follows:

- Hydrogen peroxide catalyzed sodium persulfate was a more effective treatment for VOC in soil than NaOH catalyzed sodium persulfate likely due to the ability of hydrogen peroxide to penetrate the clay matrix of the soil.
- Soil Sample 2 was not treated effectively by ISCO likely because the doses tested were not sufficient to treat the high VOC concentrations present in this sample. Testing of higher doses followed.

Testing of higher oxidant doses was completed for soil Sample 2. SPLP VOC and metals showed improvement; however, results were inconsistent and the application of higher oxidant doses may not be cost effective. ISS was assessed as an alternative remedy.

Task 3: TOD

The TOD of the soil samples was determined by placing 50 g of the composite soil in two 8-oz. jars and adding 100 mL of 10 percent sodium persulfate; one soil sample was catalyzed by NaOH and the other by hydrogen peroxide. The initial oxidant concentration in each jar was measured and recorded. After 1 week, the jars were sampled again, and the residual oxidant concentrations were measured and recorded.

The TOD of soil Samples 1, 2, and 3 for base activated sodium persulfate was 73 g/kg, 167 g/kg, and 86 g/kg, respectively.

Task 4: Stabilization Reagent Screening Tests

The reagents screened included Portland cement, lime, gypsum, cement kiln dust, and fly ash. Binding agents including organoclay and granular activated carbon (GAC) were also tested.

The tests were prepared by placing 200 g of soil with the appropriate amount of solidification agent in a mechanical mixer. A PID was used to monitor for volatilization of constituents during mixing. The soil and solidification agent were mixed for 5 minutes and then placed in a glass jar. The increase in sample volume due to the treatment was noted. The glass jar was placed in a high humidity chamber to replicate field conditions for curing. After curing for 2 weeks, the samples were tested with a pocket penetrometer to determine whether sufficient solidification had occurred.

Samples showing sufficient solidification were analyzed for SPLP VOC.



August 13, 2013

Reference No. 035029

-4-

For Soil Sample 1, some reductions in leaching of VOC were observed after treatment with 5 percent Portland cement. The addition of organoclay, or GAC did not reduce the leaching of VOC.

For Soil Sample 2, reductions in VOC leaching were also observed after treatment with 5 percent Portland cement. The addition of GAC achieved a further reduction in the leaching of xylenes but did not reduce the leaching of the other VOC. The addition of organoclay did not reduce the leaching of VOC.

For Soil Sample 3, no reduction in VOC leaching was observed after treatment with 5 percent Portland cement, although some reductions were observed after treatment with 10 percent Portland cement. The addition of GAC decreased the leaching of xylenes; however, reductions in the amount of leaching of other VOC were not observed when either GAC or organoclay was added. The addition of Portland cement and gypsum appeared to decrease VOC leaching for this sample.

Reductions in VOC leaching did not occur after the addition of GAC; however, it appeared that the clayey nature of the soil prevented good contact between the GAC and the VOC. It was anticipated that increasing the amount of GAC would increase the potential for good contact between the GAC and the VOC and result in a reduction of VOC leaching.

Testing of higher doses of oxidant for soil Sample 2 and higher concentrations of GAC for the solidification stabilization tests is substantially complete. Preliminary results show increased treatment/stabilization of the VOC in the soil samples.

The Pilot Test methods and associated results will be reported in the CAP and/or Pilot Test Work Plan.

3.0 SCHEDULE

Completion of the Treatability Study has been delayed due to the need to assess additional treatment supplements and mix ratios. The review of treatment options is expected to be completed by the end of September. A revised schedule follows:

<u>TASK/ACTIVITY</u>	<u>STATUS/DURATION</u>	<u>DATE</u>
Soil Treatability Sample Collection	Complete	Mid-Dec. 2012
Performance of Treatability Study	On-going	Mid-August 2013
Assessment of Remedial Options	On-going	End of Sept. 2013
Submittal of CAP and/or Pilot Test Work Plan	8 weeks	End of Nov. 2013



**CONESTOGA-ROVERS
& ASSOCIATES**

August 13, 2013

Reference No. 035029

-5-

Installation of Performance Monitoring Wells And Initiation of Pilot Test/Remediation	Subject to EPD Approval	To be determined
Groundwater Sampling Event	Complete	February 2013

Please contact the undersigned with any questions or suggestions.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

R. T. (Bob) Pyle

Terefe Mazengia, P.G.

RTP/tb/02
Encl.

cc: Arivec Technical Committee
Ms. Amy Magee, King & Spalding

ATTACHMENT

ATTACHMENT A



**CONESTOGA-ROVERS
& ASSOCIATES**

3075 Breckinridge Blvd, Suite #470
Duluth, Georgia 30096
Telephone: (770) 441-0027 Fax: (770) 441-2050
www.CRAworld.com

MEMORANDUM

TO: Arivec Technical Committee REF. NO.: 035029

FROM: Terefe Mazengia/ *TBM*
Bob Pyle/tb/20/ *BP* DATE: August 13, 2013

CC: Mike Reinhardt

RE: Arivec Chemicals Site, Douglasville – Groundwater Monitoring (February/March 2013)

This memorandum summarizes the procedures and results of the groundwater monitoring and sampling conducted at the Arivec Chemicals Site (ACS) during the recent (February/March) event. The groundwater monitoring was conducted on all ACS monitoring wells (on and off-site) and select off-site monitoring wells to monitor the groundwater quality and overall plume stability.

1.0 GROUNDWATER MONITORING

CRA performed the groundwater monitoring program in February/March 2013 to evaluate changes and trends in groundwater quality and plume stability. The monitoring program included gauging and sampling all ACS monitoring wells: MW-CRA-1S, MW-CRA-2S, MW-CRA-3B, MW-CRA-4S, MW-CRA-5S, MW-CRA-5B, MW-CRA-6S, MW-CRA-7S, MW-CRA-8B, MW-CRA-9S, MW-2R, MW-2B, MW-9R, MW-9B, MW-15R, MW-15B, MW-17R, MW-17B, MW-18R and AW-2. All monitoring wells were sampled and analyzed for target compound list (TCL) volatile organic compounds (VOCs) except monitoring wells MW-CRA-4S and MW-2R. MW-CRA-4S was dry, and MW-2R, an off-site well on the Signal Energy property, had a tar-like material detected floating on the water. Monitoring well locations that were sampled during this event are shown on [Figure 1](#).

1.1 GROUNDWATER ELEVATIONS

Groundwater levels were measured at the above referenced monitoring wells on February 25, 2013. Water level data were reduced to a common vertical datum based on the surveyed top of casing (TOC) elevations. [Table 1](#) provides the depth to water measurement data for monitoring wells in the residuum (R) and bedrock (B) water-bearing units. The elevation data were further evaluated and illustrated to show groundwater flow direction for the two water-bearing units, as shown on [Figures 2A](#) and [2B](#), respectively. Groundwater generally flows towards the northwest in both the shallow and the bedrock water bearing units.

1.2 GROUNDWATER SAMPLING PROCEDURES

Groundwater measurement and sampling procedures were conducted in general accordance with the EPA Region IV, Field Branches Quality System and Technical Procedures (FBQSTP) guidance documents¹. All samples were collected in laboratory supplied containers containing appropriate preservative specified by the method. The list of monitoring wells sampled during this groundwater monitoring event along with the field sample keys is provided in [Table 2](#).

Groundwater sampling was conducted between February 25 and March 15, 2013. Before starting the purging process, the water level was measured again with the tubing/pump in the well. Prior to groundwater sampling, each monitoring well was purged using low-flow purging (LFP) techniques. The LFP technique was performed using either a peristaltic pump or pre-cleaned bladder pump fitted with new disposable polyethylene tubing prior to use in each well. During purging, the water level was monitored approximately every five minutes. Field parameters (i.e., pH, conductivity, turbidity, temperature, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) were measured every five minutes using a flow-through cell. Flow rates were monitored, and maintained within a certain range to minimize drawdown of the water column. Drawdown in some of the sampled monitoring wells was recorded above the standard drawdown of 0.35 ft. Stabilization of parameters in the groundwater in the screened interval was evaluated using the real-time parameter data measured by the flow-through cell of a calibrated Horiba U-53 and was determined complete when three consecutive sets of parameter measurements were within the appropriate range². In the event that drawdown was measured more than 0.35 ft during purging, the purging method was changed to the three well volumes purging method. Monitoring wells MW-CRA-2S, MW-CRA-3B, MW-CRA-6S, and MW-17R were purged and sampled by the 3-volume method.

Following stabilization of field measured parameters for LFP, the pumping of the peristaltic pump was temporarily stopped and VOC samples were collected from the suction end of the polyethylene tubing utilizing the “soda straw” method. Purge water was containerized and staged at the facility pending disposal. [Attachment A](#) provides a summary of field measurements that were recorded during purging activities for each monitoring well location.

Following low-flow sampling, select monitoring wells were sampled using the no purge method passive diffusion bags (PDBs). PDBs are used to collect groundwater samples for analysis of specific chemical compounds, especially VOCs. The PDBs are hung from a cable and placed in monitoring wells at the well screen for periods of at least 14 days, or until equilibrium has taken place between the water in the sampler and surrounding groundwater. They operate by diffusion of contaminants across a polyethylene membrane. The passive diffusion samplers act as a filter, so field filtering is not necessary and purging is not necessary.

The PDB were filled with de-ionized water and then hung in monitoring wells MW-2B, MW-9B and MW-15B at the same depths where the pumps were installed during the low-flow purging methods. The PDBs were placed in the wells for approximately 14 days to allow the concentration inside and outside the

1 Science and Ecosystem Support Division (SESD) Guidance Numbers SESDPROC-105-R2, January 29, 2013 and SESDPROC-301-R3, March 6, 2013.

2 pH ± 0.1 pH units of the average value of the three readings; temperature ± 3 percent of the average value of the three readings; conductivity ± 0.005 milliSiemen per centimeter (mS/cm) of the average value of the three readings for conductivity < 1 mS/cm and ± 0.01 mS/cm of the average value of the three readings for Conductivity > 1 mS/cm; ORP ± 10 millivolts (mV) of the average value of the three readings; DO ± 10 percent of the average value of the three readings; and turbidity ± 10 percent of the average value of the three readings or a final value of less than 5 NTU.

bag equilibrate. The PDBs were then retrieved from the wells, and the samples were poured into laboratory provided sample vials with preservatives.

One duplicate groundwater sample was collected from monitoring well MW-CRA-7S (Sample IDs: GW-035029-022613-SAG-205). One matrix spike/matrix spiked duplicate (MS/MSD) groundwater sample was collected from MW-CRA-3B (GW-035029-022713-SAG-008). The duplicate and matrix spike/matrix spiked duplicate samples were all collected for quality assurance/quality control (QA/QC) purposes and the data were independently validated.

1.3 FEBRUARY/MARCH 2013 ANALYTICAL RESULTS

The analytical results for the 18 monitoring wells which were sampled in 2013 are summarized in [Table 2](#). [Table 3](#) includes historical groundwater results from the three previous Site-wide sampling events conducted in October 2006, November 2009 and May 2012. The approved Type 4 RRS are also included in [Tables 2](#) and [3](#) for comparison purposes. [Attachment B](#) provides the data validation, laboratory reports and associated sample keys for the February and March 2013 groundwater samples.

The following is an assessment of how the recent data compare to historic data (October 2006, November 2009 and May 2012) and an evaluation of the Site-wide groundwater impact and the trends over the last several years. Overall, the VOC concentrations in most monitoring wells stayed the same with a slight change (upward or downward) indicating the plume is relatively stable.

Results for the monitoring wells where groundwater samples were collected from wells screened in the overburden/residuum water-bearing unit are summarized as follows:

- Concentrations of the chlorinated VOCs, PCE and TCE, continue to be significantly less than the historic concentrations in MW-CRA-2S. TCE continues to be reported as non-detect at MW-CRA-1S, MW-CRA-7S, MW-CRA-9S, MW-15R and MW-18R as was the case for the last several sampling events except at MW-CRA-7S during the October 2006 and January 2007 events which were immediately following installation of the well.
- Concentrations of select compounds decreased significantly (below detection limits in some cases) in well MW-17R.
- Concentrations of cis-1,2-DCE showed a decreasing trend at monitoring wells MW-CRA-5S and a three orders of magnitude decrease at MW-17R (11,000 µg/L to 59 µg/L) as compared to the June 2011 event.
- Concentrations of vinyl chloride decreased significantly at MW-17R (1,000 µg/L to non-detect (ND)) as compared to previous events. Temporary increases in vinyl chloride are expected to be observed during the reductive dechlorination of the parent chlorinated solvents.

Overall, concentrations of all VOCs in the source area well MW-17R were all below the Type 4 RRS as compared to the sampling events conducted before the Drum Removal Program.

Results for the additional monitoring wells where groundwater samples were collected from wells screened in the bedrock water-bearing unit are summarized as follows:

- Concentrations of cis-1,2-DCE showed a 50% decrease at monitoring well MW-17B as compared to the events before the 2009 and 2010 Drum Removal Programs.

- Concentrations of vinyl chloride increased at MW-17B and slightly decreased at AW-2 as compared to the events before the Drum Removal Programs. Temporary increases in vinyl chloride are expected to be observed during the reductive dechlorination of the parent chlorinated solvents.

In general, VOC concentrations in bedrock monitoring well MW-17B decreased by approximately 50% as compared to the events before the Drum Removal programs. Concentrations of benzene, cis-1,2-DCE and vinyl chloride in groundwater sampled using the PDB from MW-2B were reported slightly higher than the 2009 pre-drum removal sampling event.

Table 4 provides groundwater data overview for monitoring wells located at the upgradient, source area and downgradient locations. The data overview presents the total chlorinated and non-chlorinated VOCs in parenthesis for each of the wells for the 2013 groundwater sampling. In general, concentrations of both CVOCs and non-CVOCs were reported low at the upgradient and shallow source area wells except at upgradient well MW-CRA-6S and source area well MW-17B. Monitoring wells immediately downgradient have shown higher concentrations of CVOCs in the bedrock.

Data obtained from the PDB samples was comparable to the low flow samples at monitoring wells MW-9B and MW-15B. The results of the PDB sample from monitoring well MW-2B were higher than the sample collected by low flow methods. Benzene concentrations increased by an order of magnitude (30 µg/L vs 340 µg/L); CIS-1,2-DCE was 50% higher (3,000 µg/L vs 4,500 µg/L); and vinyl chloride increased by a factor of almost 4 (1,300 µg/L vs 4,900 µg/L). The PDB vs low-flow results may have been influenced by localized fracture zones; additional dual sampling during upcoming events is proposed to ensure the data from the methods are comparable.

FIGURES

TABLES

TABLE 1

GROUNDWATER ELEVATIONS
ARIVEC CHEMICALS SITE
DOUGLASVILLE, GEORGIA

Well ID	Well location	Date Measured	Well depth (ft)	Screen Interval (ft)	Top of Casing (ft)	Depth to water (ft)	Water elevation (ft)
AW-2	on-site	3/25/2009	66.5	--	1145.83	18.93	1126.90
		5/24/2011				19.97	1125.86
		2/25/2013				22.71	1123.12
MW-CRA-1S	on-site	9/30/2004	24	14.0 - 24.0	1157.81	14.00	1143.81
		3/28/2005				10.12	1147.69
		7/15/2005				9.40	1148.41
		3/25/2009				14.44	1143.37
		5/24/2011				14.49	1143.32
		2/25/2013				13.99	1143.82
MW-CRA-2S	on-site	9/30/2004	12	7.5 - 12.5	1163.48	6.03	1157.45
		3/28/2005				3.20	1160.28
		7/15/2005				3.81	1159.67
		3/25/2009				6.37	1157.11
		5/24/2011				8.23	1155.25
		2/25/2013				4.74	1158.74
MW-CRA-3B	on-site	3/28/2005	24	13.5 - 23.5	1166.2	4.92	1161.28
		7/15/2005				5.10	1161.10
		3/25/2009				8.01	1158.19
		5/24/2011				8.88	1157.32
		2/25/2013				5.72	1160.48
MW-CRA-4S ¹	off-site	3/28/2005	18	8.0 - 18.0	1131.8	10.92	1120.88
		7/15/2005				17.18	1114.62
		3/25/2009				dry	--
		5/24/2011				Not found	--
		2/25/2013				18.65	1113.15
MW-CRA-5S	off-site	7/15/2005	20	10.0 - 20.0	1117.31	7.70	1109.61
		3/25/2009				12.66	1104.65
		5/24/2011				11.70	1105.61
		2/25/2013				14.38	1102.93
MW-CRA-5B	off-site	7/15/2005	23.9	18.9 - 23.9	1116.83	7.42	1109.41
		3/25/2009		Fractured Rock		12.39	1104.44
		5/24/2011		borehole cave in from 24 to 41 ft		11.33	1105.50
		2/25/2013				14.16	1102.67
MW-CRA-6S	off-site	3/25/2009	15	5.0 - 15.0	1161.45	5.67	1155.78
		5/24/2011				7.05	1154.40
		7/21/2011			1159.25		
		2/25/2013				2.59	1158.86
MW-CRA-7S	off-site	3/25/2009	31.5	21.5 - 31.5	1147.89	20.40	1127.49
		5/24/2011				19.04	1128.85
		2/25/2013				22.50	1125.39
MW-CRA-8B	off-site	3/25/2009	27.5	17.0 - 27.0	1108.99	13.70	1095.29
		5/24/2011				15.64	1093.35
		2/25/2013				11.61	1097.38
MW-CRA-9S	off-site	3/25/2009	18	8.0 - 10.0	NS	9.31	--
		5/24/2011				9.18	--
		2/25/2013				11.26	--
MW-17B	on-site	9/29/2004	47	42.0 - 47.0	1145.63	12.64	1132.99
		3/28/2005				10.15	1135.48
		7/15/2005				9.45	1136.18
		3/25/2009				11.54	1134.09
		5/24/2011			1148.1	14.72	1133.38
		7/21/2011			1148.77		
MW-17R	on-site	2/25/2013	20	10.0 - 20.0	1145.81	14.96	1130.67
		9/29/2004				14.12	1131.69
		3/28/2005				11.50	1134.31
		7/15/2005				11.20	1134.61
		3/25/2009				13.26	1132.55
		5/24/2011			1148.5	16.14	1132.36
MW-18R	on-site	7/21/2011	16	1.0 - 16.0	1141.55	1148.57	
		2/25/2013				10.61	1135.20
		9/29/2004				3.82	1137.73
		3/28/2005				1.46	1140.09
		7/15/2005				2.15	1139.40
		3/25/2009				3.99	1137.56
MW-18R	on-site	5/24/2011	16	1.0 - 16.0	1141.55	1144.2	1130.94
		7/21/2011				1145.74	
		2/25/2013				5.57	1135.98
		9/29/2004				3.82	1137.73
		3/28/2005				1.46	1140.09
MW-2B ²	off-site	7/15/2005	168	100 - 168	1130.88	2.15	1139.40
		3/25/2009				3.99	1137.56
		5/24/2011				13.26	1130.94
		7/21/2011				1145.74	
MW-2R ²	off-site	2/25/2013	14	4 - 14	1131.83	5.57	1135.98
		3/25/2009				5.35	1125.53
		5/24/2011				15.07	1115.81
MW-9B ²	off-site	2/25/2013	197	16 - 197	1133.81	6.45	1124.43
		3/25/2009				not gauged	--
		5/24/2011				9.1	1122.73
MW-9R ²	off-site	2/25/2013	17	7 - 17	1131.39	5.74	1126.09
		3/25/2009				41.16	1092.65
		5/24/2011				117.02	1016.79
MW-15B ²	off-site	2/25/2013	77	66 - 77	1095.76	55.57	1078.24
		3/25/2009				15.19	1116.20
		5/24/2011				15.33	1116.06
MW-15R ²	off-site	2/25/2013	22	12 - 22	1095.58	13.88	1117.51
		3/25/2009				20.59	1075.17
		5/24/2011				18.53	1077.23
MW-15R ²	off-site	2/25/2013	22	12 - 22	1095.58	15.27	1080.49
		3/25/2009				8.71	1086.87
		5/24/2011				12.42	1083.16
MW-15R ²	off-site	2/25/2013	22	12 - 22	1095.58	4.98	1090.60
		3/25/2009					
		5/24/2011					

Notes:

¹ MW-CRA-4 is 1- inch diameter well, elevation is for ground surface, TOC was not surveyed.

² Top of casing survey data taken from Young Refining (former surveying).

NS - Not surveyed

Top of casing elevations (TOC) of MW-17BR, MW-17R and MW-18R were altered during Drum Removal work, approximate TOC were used.

TOCs of MW-CRA-6S, MW-17BR, MW-17R and MW-18R were resurveyed after repair.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FEBRUARY-MARCH 2013
ARIVEC CHEMICALS SITE
DOUGLASVILLE, GEORGIA

Sample Location:				MW-CRA-1S	MW-2B	MW-2B	MW-CRA-2S	MW-CRA-3B	MW-CRA-5B	MW-CRA-5S
Sample ID:	Type 1	Type 4		GW-022713-AWY-202	GW-022613-DJB-103	GW-031513-DJB-109	GW-035029-022713-SAG-007	GW-035029-022713-SAG-008	GW-035029-022613-SAG-006	GW-022613-DJB-105
Sample Date:	RRS	RRS		2/27/2013	2/26/2013	3/15/2013	2/27/2013	2/27/2013	2/26/2013	2/26/2013
Sample Area:				On-site	Off-site	Off-site	On-site	On-site	Off-site	Off-site
	Units	a	b			PDB				
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	ug/L	NV	NV	-	-	-	-	-	-	-
1,1,1-Trichloroethane	ug/L	200	13600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	9.0	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	200	200	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	46.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	13 ^a	5.0 U
1,1-Dichloroethane	ug/L	4000	4000	5.0 U	140	140	5.0 U	5.0 U	470	44
1,1-Dichloroethene	ug/L	7	524	5.0 U	20	31	5.0 U	5.0 U	220 ^a	31 ^a
1,1-Dichloropropene	ug/L	5	5	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	ug/L	5	5	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/L	40	40	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	70	70	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	70	70	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	600	600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	12	5.0 U
1,2-Dichloroethane	ug/L	5	5	5.0 U	7.4 ^o	8.6 ^o	5.0 U	5.0 U	14 ^a	5.0 U
1,2-Dichloropropane	ug/L	5	7.41	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	5	5	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	600	600	-	-	5.0 U	-	-	-	-
1,3-Dichloropropane	ug/L	NV	NV	-	-	5.0 U	-	-	-	-
1,4-Dichlorobenzene	ug/L	75	75	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	ug/L	NV	260	150 U	380	150 U	150 U	150 U	1000 ^o	150 U
2,2-Dichloropropane	ug/L	5	5	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	2000	11800	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chlorotoluene	ug/L	5	2040	-	-	-	-	-	-	-
2-Hexanone	ug/L	2000	2000	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10	409	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	ug/L	5	5	-	-	-	-	-	-	-
4-Chlorotoluene	ug/L	5	5	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	2000	4230	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	4000	45600	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	ug/L	5	8.72	5.0 U	30 ^o	340 ^o	5.0 U	5.0 U	75 ^a	5.0 U
Bromobenzene	ug/L	5	144	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	10	13.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	4000	4000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5	102	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	100	136	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	38	5.0 U
Chlorobromomethane	ug/L	5	5	-	-	-	-	-	-	-
Chloroethane	ug/L	10	29200	10 U	11	54	10 U	10 U	35 ^a	10 U
Chloroform (Trichloromethane)	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	3	263	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FEBRUARY-MARCH 2013
ARIVEC CHEMICALS SITE
DOUGLASVILLE, GEORGIA

Sample Location:				MW-CRA-1S	MW-2B	MW-2B	MW-CRA-2S	MW-CRA-3B	MW-CRA-5B	MW-CRA-5S
Sample ID:	Type 1	Type 4		GW-022713-AWY-202	GW-022613-DJB-103	GW-031513-DJB-109	GW-035029-022713-SAG-007	GW-035029-022713-SAG-008	GW-035029-022613-SAG-006	GW-022613-DJB-105
Sample Date:	RRS	RRS		2/27/2013	2/26/2013	3/15/2013	2/27/2013	2/27/2013	2/26/2013	2/26/2013
Sample Area:				On-site	Off-site	Off-site	On-site	On-site	Off-site	Off-site
	Units	a	b			PDB				
cis-1,2-Dichloroethene	ug/L	70	204	5.0 U	3000 ^o	4500 ^o	45	5.0 U	14000 ^a	1500 ^a
cis-1,3-Dichloropropene	ug/L	5	11.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	5	17500	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	8.9 ^a	5.0 U
Cymene (p-Isopropyltoluene)	ug/L	5	5	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	ug/L	500	1020	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	1000	20400	10 U	10 U	10 U	10 U	10 U	20	10 U
Ethylbenzene	ug/L	700	700	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	10	33.7	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	5	1050	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	9.1 ^a	5.0 U
m&p-Xylenes	ug/L	10000	10000	-	-	-	-	-	-	-
Methyl acetate	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	5	5	5.0 U	5.0 U	5.0 U	14 ^o	5.0 U	6.6 ^a	5.0 U
Methyl tert butyl ether (MTBE)	ug/L	5	263	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	119	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	40 ^a	5.0 U
Naphthalene	ug/L	20	20	-	-	-	-	-	-	-
N-Butylbenzene	ug/L	5	5110	-	-	-	-	-	-	-
N-Propylbenzene	ug/L	5	5	-	-	-	-	-	-	-
o-Xylene	ug/L	10000	10000	-	-	-	-	-	-	-
Styrene	ug/L	100	2560	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	ug/L	5	5	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	5	5	6.5 ^o	5.0 U	5.0 U	12 ^o	5.0 U	55 ^a	8.2 ^a
Toluene	ug/L	1000	5240	5.0 U	5.0 U	18	5.0 U	5.0 U	41	5.0 U
trans-1,2-Dichloroethene	ug/L	100	161	5.0 U	11	13	5.0 U	5.0 U	40	5.0 U
trans-1,3-Dichloropropene	ug/L	5	11.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	37.7	5.0 U	5.0 U	5.0 U	19	5.0 U	400 ^a	73 ^a
Trichlorofluoromethane (CFC-11)	ug/L	2000	2000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1000000	1000000	10 U	10 U	10 U	10 U	10 U	710	59
Vinyl chloride	ug/L	2	3.27	2.0 U	1300 ^o	4900 ^o	2.0 U	2.0 U	950 ^a	68 ^a
Xylenes (total)	ug/L	10000	10000	5.0 U	5.0 U	33	5.0 U	5.0 U	52	5.0 U

Notes:
Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a)
The Remainder of the Wells are compared to Type 4 RRS (b)
Exceedance of RRS is noted in red and bold with letter
NV- No Value
J - Estimated, below Quantitation Limits
5.0 U - Below assocaited reporting limit
"--" - Not analyzed
ug/L - Micrograms per Liter

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FEBRUARY-MARCH 2013
ARIVEC CHEMICALS SITE
DOUGLASVILLE, GEORGIA

Sample Location:				MW-CRA-6S	MW-CRA-7S	MW-CRA-7S	MW-CRA-8B	MW-9B	MW-9B	MW-9R	MW-CRA-9S
Sample ID:	Type 1	Type 4		GW-022713-AWY-201	GW-035029-022613-SAG-004	GW-035029-022613-SAG-005	GW-022613-DJB-104	GW-022513-DJB-101	GW-031513-DJB-108	GW-035029-022513-SAG-001	GW-035029-022613-SAG-003
Sample Date:	RRS	RRS		2/27/2013	2/26/2013	2/26/2013	2/26/2013	2/25/2013	3/15/2013	2/25/2013	2/26/2013
Sample Area:				Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site
	Units	a	b			Duplicate			PDB		
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	ug/L	NV	NV	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	ug/L	200	13600	260	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	200	200	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	46.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	4000	48	5.0 U	5.0 U	5.0 U	9.4	10	36	5.0 U
1,1-Dichloroethene	ug/L	7	524	59	5.0 U	5.0 U	5.0 U	7.7	6.9	15	5.0 U
1,1-Dichloropropene	ug/L	5	5	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	ug/L	5	5	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/L	40	40	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	70	70	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	70	70	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	600	600	12	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5	7.41	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	600	600	-	-	-	-	-	5.0 U	-	-
1,3-Dichloropropane	ug/L	NV	NV	-	-	-	-	-	5.0 U	-	-
1,4-Dichlorobenzene	ug/L	75	75	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U
1,4-Dioxane	ug/L	NV	260	150 U	150 U	150 U	150 U	150 U	150 U	150 U	150 U
2,2-Dichloropropane	ug/L	5	5	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	2000	11800	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chlorotoluene	ug/L	5	2040	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	2000	2000	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10	409	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	ug/L	5	5	-	-	-	-	-	-	-	-
4-Chlorotoluene	ug/L	5	5	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	2000	4230	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	4000	45600	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	ug/L	5	8.72	710 ^p	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromobenzene	ug/L	5	144	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	10	13.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	4000	4000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5	102	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	100	136	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobromomethane	ug/L	5	5	-	-	-	-	-	-	-	-
Chloroethane	ug/L	10	29200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	3	263	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FEBRUARY-MARCH 2013
ARIVEC CHEMICALS SITE
DOUGLASVILLE, GEORGIA

Sample Location:				MW-CRA-6S	MW-CRA-7S	MW-CRA-7S	MW-CRA-8B	MW-9B	MW-9B	MW-9R	MW-CRA-9S
Sample ID:	Type 1	Type 4		GW-022713-AWY-201	GW-035029-022613-SAG-004	GW-035029-022613-SAG-005	GW-022613-DJB-104	GW-022513-DJB-101	GW-031513-DJB-108	GW-035029-022513-SAG-001	GW-035029-022613-SAG-003
Sample Date:	RRS	RRS		2/27/2013	2/26/2013	2/26/2013	2/26/2013	2/25/2013	3/15/2013	2/25/2013	2/26/2013
Sample Area:				Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site
	Units	a	b			Duplicate			PDB		
cis-1,2-Dichloroethene	ug/L	70	204	49000 ^p	5.0 U	5.0 U	5.0 U	160	170	140	5.0 U
cis-1,3-Dichloropropene	ug/L	5	11.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	5	17500	120	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cymene (p-Isopropyltoluene)	ug/L	5	5	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	ug/L	500	1020	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	1000	20400	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	700	700	110	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	10	33.7	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	5	1050	12	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m&p-Xylenes	ug/L	10000	10000	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	5	5	110 ^p	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether (MTBE)	ug/L	5	263	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	119	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	20	20	-	-	-	-	-	-	-	-
N-Butylbenzene	ug/L	5	5110	-	-	-	-	-	-	-	-
N-Propylbenzene	ug/L	5	5	-	-	-	-	-	-	-	-
o-Xylene	ug/L	10000	10000	-	-	-	-	-	-	-	-
Styrene	ug/L	100	2560	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	ug/L	5	5	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	5	5	620 ^p	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.7 ^p	5.0 U
Toluene	ug/L	1000	5240	1500	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	100	161	900 ^p	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	5	11.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	37.7	490 ^p	5.0 U	5.0 U	5.0 U	6.8	8.3	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	2000	2000	1700	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1000000	1000000	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	3.27	49 ^p	2.0 U	2.0 U	2.0 U	2.9	2.0	11 ^p	2.0 U
Xylenes (total)	ug/L	10000	10000	580	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

Notes:
Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a)
The Remainder of the Wells are compared to Type 4 RRS (b)
Exceedance of RRS is noted in red and bold with letter
NV- No Value
J - Estimated, below Quantitation Limits
5.0 U - Below assocaited reporting limit
"--" - Not analyzed
ug/L - Micrograms per Liter

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS										
FEBRUARY-MARCH 2013										
ARIVEC CHEMICALS SITE										
DOUGLASVILLE, GEORGIA										
Sample Location:				MW-15B	MW-15B	MW-15R	MW-17R	MW-17B	MW-18R	AW-2
Sample ID:	Type 1	Type 4		GW-035029-022613-SAG-002	GW-031513-DJB-107	GW-022613-DJB-102	GW-022813-DJB-106	GW-035029-022813-SAG-010	GW-035029-022713-SAG-009	GW-022713-AWY-203
Sample Date:	RRS	RRS		2/26/2013	3/15/2013	2/26/2013	2/28/2013	2/28/2013	2/27/2013	2/27/2013
Sample Area:				Off-site	Off-site	Off-site	On-site	On-site	On-site	On-site
	Units	a	b	PDB						
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	ug/L	NV	NV	-	-	-	-	-	-	-
1,1,1-Trichloroethane	ug/L	200	13600	5.0 U	5.0 U	5.0 U	5.0 U	190	5.0 U	50
1,1,2,2-Tetrachloroethane	ug/L	200	200	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	46.4	5.0 U	5.0 U	5.0 U	5.0 U	160 ^p	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	4000	5.0 U	5.0 U	5.0 U	5.0 U	1100	5.0 U	88
1,1-Dichloroethene	ug/L	7	524	5.0 U	5.0 U	5.0 U	5.0 U	260	5.0 U	71
1,1-Dichloropropene	ug/L	5	5	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	ug/L	5	5	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/L	40	40	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	70	70	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	70	70	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	600	600	5.0 U	5.0 U	5.0 U	5.0 U	11	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	230 ^p	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5	7.41	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	5	5	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	600	600	-	5.0 U	-	-	-	-	-
1,3-Dichloropropane	ug/L	NV	NV	-	5.0 U	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	75	75	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	ug/L	NV	260	150 U	150 U	150 U	150 U	150 U	150 U	150 U
2,2-Dichloropropane	ug/L	5	5	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	2000	11800	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chlorotoluene	ug/L	5	2040	-	-	-	-	-	-	-
2-Hexanone	ug/L	2000	2000	10 U	10 U	10 U	10 U	11	10 U	10 U
2-Methylnaphthalene	ug/L	10	409	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	ug/L	5	5	-	-	-	-	-	-	-
4-Chlorotoluene	ug/L	5	5	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	2000	4230	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	4000	45600	50 U	50 U	50 U	50 U	200	50 U	50 U
Benzene	ug/L	5	8.72	5.0 U	5.0 U	5.0 U	5.0 U	870 ^p	5.0 U	38 ^p
Bromobenzene	ug/L	5	144	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	10	13.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	4000	4000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5	102	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	100	136	5.0 U	5.0 U	5.0 U	5.0 U	6.3	5.0 U	5.0 U
Chlorobromomethane	ug/L	5	5	-	-	-	-	-	-	-
Chloroethane	ug/L	10	29200	10 U	10 U	10 U	10 U	410	10 U	10 U
Chloroform (Trichloromethane)	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	3	263	10 U	10 U	10 U	10 U	10 U	10 U	10 U

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FEBRUARY-MARCH 2013
ARIVEC CHEMICALS SITE
DOUGLASVILLE, GEORGIA

Sample Location:				MW-15B	MW-15B	MW-15R	MW-17R	MW-17B	MW-18R	AW-2
Sample ID:	Type 1	Type 4		GW-035029-022613-SAG-002	GW-031513-DJB-107	GW-022613-DJB-102	GW-022813-DJB-106	GW-035029-022813-SAG-010	GW-035029-022713-SAG-009	GW-022713-AWY-203
Sample Date:	RRS	RRS		2/26/2013	3/15/2013	2/26/2013	2/28/2013	2/28/2013	2/27/2013	2/27/2013
Sample Area:				Off-site	Off-site	Off-site	On-site	On-site	On-site	On-site
	Units	a	b		PDB					
cis-1,2-Dichloroethene	ug/L	70	204	5.0 U	5.1	5.0 U	59	26000 ^p	5.0 U	7600 ^p
cis-1,3-Dichloropropene	ug/L	5	11.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	5	17500	5.0 U	5.0 U	5.0 U	5.0 U	89	5.0 U	16
Cymene (p-Isopropyltoluene)	ug/L	5	5	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	ug/L	500	1020	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	1000	20400	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	700	700	5.0 U	5.0 U	5.0 U	5.0 U	350	5.0 U	23
Hexachlorobutadiene	ug/L	10	33.7	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	5	1050	5.0 U	5.0 U	5.0 U	5.0 U	20	5.0 U	9.4
m&p-Xylenes	ug/L	10000	10000	-	-	-	-	-	-	-
Methyl acetate	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	69 ^p	5.0 U	12 ^p
Methyl tert butyl ether (MTBE)	ug/L	5	263	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	119	5.0 U	5.0 U	5.0 U	5.0 U	42	5.0 U	5.0 U
Naphthalene	ug/L	20	20	-	-	-	-	-	-	-
N-Butylbenzene	ug/L	5	5110	-	-	-	-	-	-	-
N-Propylbenzene	ug/L	5	5	-	-	-	-	-	-	-
o-Xylene	ug/L	10000	10000	-	-	-	-	-	-	-
Styrene	ug/L	100	2560	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	ug/L	5	5	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	9.6 ^p	5.0 U	5.0 U
Toluene	ug/L	1000	5240	5.0 U	5.0 U	5.0 U	5.0 U	6700 ^p	5.0 U	340
trans-1,2-Dichloroethene	ug/L	100	161	5.0 U	5.0 U	5.0 U	5.0 U	220 ^p	5.0 U	29
trans-1,3-Dichloropropene	ug/L	5	11.9	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	37.7	6.3 ^a	5.0 U	5.0 U	31	20	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	2000	2000	5.0 U	5.0 U	5.0 U	5.0 U	23	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1000000	1000000	10 U	10 U	10 U	10 U	35	10 U	200
Vinyl chloride	ug/L	2	3.27	2.0 U	2.0 U	2.0 U	2.0 U	10000 ^p	2.0 U	790 ^p
Xylenes (total)	ug/L	10000	10000	5.0 U	5.0 U	5.0 U	5.0 U	1700	5.0 U	110

Notes:
Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a)
The Remainder of the Wells are compared to Type 4 RRS (b)
Exceedance of RRS is noted in red and bold with letter
NV- No Value
J - Estimated, below Quantitation Limits
5.0 U - Below assocaited reporting limit
"--" - Not analyzed
ug/L - Micrograms per Liter

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:			MW-CRA-1S	MW-CRA-1S	MW-CRA-1S	MW-CRA-1S	MW-CRA-1S	MW-2B	MW-2B	MW-2B	MW-CRA-2S	MW-CRA-2S	MW-CRA-2S	
Sample ID:		Type 1	Type 4	WG-093004-TBM-001	071905-TBM-002	GW-031809-DJB-002	GW-052711-DJB-106	GW-022713-AWY-202	GW-032709-DJB-010	GW-022613-DJB-103	GW-031513-DJB-109	WG-093004-TBM-003	071905-TBM-001	GW-071306-TBM-001
Sample Date:		RRS	RRS	9/30/2004	7/19/2005	3/18/2009	5/27/2011	2/27/2013	3/27/2009	2/26/2013	3/15/2013	9/30/2004	7/19/2005	7/13/2006
Sample Area:		CRITERIA		On-site	On-site	On-site	On-site	On-site	Off-site	Off-site	Off-site	On-site	On-site	On-site
		Units	a	b										
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	ug/L	70	100	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	ug/L	200	13600	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U	22	30
1,1,2,2-Tetrachloroethane	ug/L	5	12.8	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	46.4	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U	5 U	5.0 U
1,1-Dichloroethane	ug/L	4000	4000	5.0 U	5 U	5.0 U	5.0 U	5.0 U	150	140	140	250 U	5 U	7.3
1,1-Dichloroethene	ug/L	7	524	5.0 U	5 U	5.0 U	5.0 U	5.0 U	28	20	31	250 U	5 U	5.0 U
1,1-Dichloropropene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/L	40	40	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	70	70	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	5	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.05	5	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
1,2-Dichlorobenzene	ug/L	600	600	5.0 U	5 U	5.0 U	5.0 U	5.0 U	2.1 J	5.0 U	5.0 U	250 U	5 U	5.0 U
1,2-Dichloroethane	ug/L	5	5	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	7.4°	8.6°	-	5 U	5.0 U
1,2-Dichloropropane	ug/L	5	7.41	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	NR	NR	-	-	-	-	5.0 U	-	5.0 U	-	-	-	-
1,3-Dichlorobenzene	ug/L	600	600	-	5 U	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5 U	5.0 U
1,3-Dichloropropane	ug/L	NV	2040	-	-	-	-	-	-	-	5.0 U	-	-	-
1,4-Dichlorobenzene	ug/L	75	75	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	250 U	5 U	5.0 U
1,4-Dioxane	ug/L	NV	260	-	-	150 U	150 U	150 U	150 U	380	150 U	-	-	-
2,2-Dichloropropane	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	2000	11800	10 U	10 U	50 U	50 U	50 U	50 U	50 U	50 U	500 U	50 U	50 U
2-Chlorotoluene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	NR	NR	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	500 U	10 U	10 U
2-Methylnaphthalene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	2000	4230	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	500 U	10 U	10 U
Acetone	ug/L	4000	45600	20 U	20 U	50 U	50 U	50 U	50 U	50 U	50 U	1000 U	50 U	50 U
Benzene	ug/L	5	8.91	5.0 U	5 U	5.0 U	5.0 U	5.0 U	270°	30°	340°	250 U	5 U	5.0 U
Bromobenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	100	100	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
Bromoform	ug/L	100	100	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	10	13.2	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
Carbon disulfide	ug/L	4000	4000	-	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
Carbon tetrachloride	ug/L	5	5	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U
Chlorobenzene	ug/L	100	136	5.0 U	5 U	5.0 U	5.0 U	5.0 U	1.6 J	5.0 U	5.0 U	250 U	5 U	5.0 U
Chlorobromomethane	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	10	29200	10 U	5 U	10 U	10 U	10 U	10 U	11	54	500 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	100	100	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	250 U	5 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	3	148	-	5 U	10 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U
cis-1,2-Dichloroethene	ug/L	70	1020	5.0 U	5 U	5.0 U	5.0 U	5.0 U	2800°	3000°	4500°	250 U	100	130
cis-1,3-Dichloropropene	ug/L	2	11.9	-	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5 U	5.0 U

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:				MW-CRA-1S	MW-CRA-1S	MW-CRA-1S	MW-CRA-1S	MW-CRA-1S		MW-2B	MW-2B	MW-2B		MW-CRA-2S	MW-CRA-2S	MW-CRA-2S
Sample ID:	Type 1	Type 4		WG-093004-TBM-001	071905-TBM-002	GW-031809-DJB-002	GW-052711-DJB-106	GW-022713-AWY-202		GW-032709-DJB-010	GW-022613-DJB-103	GW-031513-DJB-109		WG-093004-TBM-003	071905-TBM-001	GW-071306-TBM-001
Sample Date:	RRS	RRS		9/30/2004	7/19/2005	3/18/2009	5/27/2011	2/27/2013		3/27/2009	2/26/2013	3/15/2013		9/30/2004	7/19/2005	7/13/2006
Sample Area:			CRITERIA	On-site	On-site	On-site	On-site	On-site		Off-site	Off-site	Off-site		On-site	On-site	On-site
	Units		a									PDB				
Cyclohexane	ug/L		5	17500						22	5.0 U	5.0 U		250 U	5 U	5.0 U
Cymene (p-Isopropyltoluene)	ug/L		NR	NR						-	-	-		-	-	-
Dibromochloromethane	ug/L		100	341		5 U	5.0 U	5.0 U		5.0 U	5.0 U	5.0 U		-	5 U	5.0 U
Dibromomethane	ug/L		400	1020		-	-	-		-	-	-		-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L		1000	1000		5 U	10 U	10 U		10 U	10 U	10 U		-	10 U	10 U
Ethylbenzene	ug/L		700	700		5.0 U	5 U	5.0 U		5.0 U	5.0 U	5.0 U		250 U	12	5.0 U
Hexachlorobutadiene	ug/L		10	33.7		-	-	-		-	-	-		-	-	-
Isopropylbenzene	ug/L		5	1050		5.0 U	5 U	5.0 U		3.7 J	5.0 U	5.0 U		250 U	5 U	5.0 U
m&p-Xylene	ug/L		10000	10000		10 U	10 U	-		-	-	-		500 U	11	10 U
Methyl acetate	ug/L		NR	NR		5 U	5.0 U	5.0 U		5.0 U	5.0 U	5.0 U		-	5 U	5.0 U
Methyl cyclohexane	ug/L		NR	NR		5.0 U	5 U	5.0 U		14	5.0 U	5.0 U		250 U	40	11
Methyl Tert Butyl Ether	ug/L		NR	NR		-	5 U	5.0 U		5.0 U	5.0 U	5.0 U		-	5 U	5.0 U
Methylene chloride	ug/L		5	119		5.0 U	5 U	5.0 U		5.0 U	5.0 U	5.0 U		250 U	10 U	5.0 U
Naphthalene	ug/L		20	20		-	-	-		-	-	-		-	-	-
n-Butylbenzene	ug/L		NR	NR		-	-	-		-	-	-		-	-	-
n-Propylbenzene	ug/L		NR	NR		-	-	-		-	-	-		-	-	-
o-Xylene	ug/L		10000	10000		5.0 U	5 U	-		-	-	-		250 U	5 U	5.0 U
Styrene	ug/L		100	2560		-	5 U	5.0 U		5.0 U	5.0 U	5.0 U		-	5 U	5.0 U
tert-Butylbenzene	ug/L		NR	NR		-	-	-		-	-	-		-	-	-
Tetrachloroethene	ug/L		5	5		5.0 U	5 U	1.2 J		5.0 U	5.0 U	5.0 U		250 U	24°	52°
Toluene	ug/L		1000	5240		5.0 U	5 U	5.0 U		21	5.0 U	18		250 U	17	5.0 U
trans-1,2-Dichloroethene	ug/L		100	161		5.0 U	5 U	5.0 U		7.0	11	13		250 U	5 U	5.0 U
trans-1,3-Dichloropropene	ug/L		2	11.9		-	5 U	5.0 U		5.0 U	5.0 U	5.0 U		-	5 U	5.0 U
Trichloroethene	ug/L		5	34.5		5.0 U	5 U	5.0 U		3.7 J	5.0 U	5.0 U		250 U	47°	89°
Trichlorofluoromethane (CFC-11)	ug/L		2000	2000		10 U	5 U	5.0 U		5.0 U	5.0 U	5.0 U		500 U	5 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L		1000000	1000000		-	5 U	10 U		10 U	10 U	10 U		-	5 U	10 U
Vinyl chloride	ug/L		2	3.27		2.0 U	2 U	2.0 U		3700°	1300°	4900°		100 U	2 U	7.6°
Xylene (total)	ug/L		10000	10000		-	-	5.0 U		50	5.0 U	33		-	-	-

Notes:

Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a).
The Remainder of the Wells are compared to Type 4 RRS (b).
Exceedance of RRS is noted in bold with letter to show which standard was used.
NV- No Value
NR - Not Regulated
J - Estimated, below Quantitation Limits.
5.0 U - Below assocaited reporting limit.
"--" - Not analyzed.
ug/L - Micrograms per Liter

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:			MW-CRA-2S	MW-CRA-2S	MW-CRA-2S	MW-CRA-3B	MW-CRA-3B	MW-CRA-3B	MW-CRA-3B	MW-CRA-4S	MW-CRA-4S	MW-CRA-5B	MW-CRA-5B
Sample ID:	Type 1	Type 4	GW-032709-DJB-008	GW-052711-DJB-104	GW-035029-022713-SAG-007	GW-031505-DJB-002	GW-032709-DJB-009	GW-060211-DJB-111	GW-035029-022713-SAG-008	GW-031505-DJB-001		GW-051305-DJB-001	GW-040809-SAG-109
Sample Date:	RRS	RRS	3/27/2009	5/27/2011	2/27/2013	3/15/2005	3/27/2009	6/2/2011	2/27/2013	3/15/2005	2/27/2013	5/13/2005	4/8/2009
Sample Area:	CRITERIA		On-site	On-site	On-site	On-site	On-site	On-site	On-site	Off-site	Off-site	Off-site	Off-site
	Units	a	b										
Volatile Organic Compounds													
1,1,1,2-Tetrachloroethane	ug/L	70	100	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	ug/L	200	13600	120	6.7	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		17	11
1,1,2,2-Tetrachloroethane	ug/L	5	12.8	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
1,1,2-Trichloroethane	ug/L	5	46.4	4.2 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		5.0 U	9.5 ^a
1,1-Dichloroethane	ug/L	4000	4000	20	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	18		180	440
1,1-Dichloroethene	ug/L	7	524	3.6 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	14 ^a		230 ^a	260 ^a
1,1-Dichloropropene	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
1,2,3-Trichlorobenzene	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
1,2,3-Trichloropropane	ug/L	40	40	-	-	-	-	-	-	-		-	-
1,2,4-Trichlorobenzene	ug/L	70	70	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
1,2,4-Trimethylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	5	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.05	5	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
1,2-Dichlorobenzene	ug/L	600	600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		5.0 U	18
1,2-Dichloroethane	ug/L	5	5	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	17 ^a
1,2-Dichloropropane	ug/L	5	7.41	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	3.3 J
1,3,5-Trimethylbenzene	ug/L	NR	NR	-	-	5.0 U	-	-	-	5.0 U		-	-
1,3-Dichlorobenzene	ug/L	600	600	5.0 U	5.0 U	-	-	5.0 U	5.0 U	-		-	5.0 U
1,3-Dichloropropane	ug/L	NV	2040	-	-	-	-	-	-	-		-	-
1,4-Dichlorobenzene	ug/L	75	75	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		5.0 U	3.0 J
1,4-Dioxane	ug/L	NV	260	150 U	150 U	150 U	-	150 U	150 U	150 U		-	1500
2,2-Dichloropropane	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	2000	11800	50 U	50 U	50 U	10 U	50 U	50 U	10 U		50 U	50 U
2-Chlorotoluene	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
2-Hexanone	ug/L	NR	NR	10 U	10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U
2-Methylnaphthalene	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
2-Phenylbutane (sec-Butylbenzene)	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
4-Chlorotoluene	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	2000	4230	10 U	10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U
Acetone	ug/L	4000	45600	50 U	50 U	50 U	50 U	50 U	50 U	50 U		50 U	50 U
Benzene	ug/L	5	8.91	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		31 ^a	78 ^a
Bromobenzene	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
Bromodichloromethane	ug/L	100	100	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
Bromoform	ug/L	100	100	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
Bromomethane (Methyl Bromide)	ug/L	10	13.2	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
Carbon disulfide	ug/L	4000	4000	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
Carbon tetrachloride	ug/L	5	5	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U
Chlorobenzene	ug/L	100	136	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		6.2	23
Chlorobromomethane	ug/L	NR	NR	-	-	-	-	-	-	-		-	-
Chloroethane	ug/L	10	29200	10 U	10 U	10 U	10 U	10 U	10 U	10 U		10 U	20 ^a
Chloroform (Trichloromethane)	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		5.0 U	2.5 J
Chloromethane (Methyl Chloride)	ug/L	3	148	10 U	10 U	10 U	-	10 U	10 U	-		-	10 U
cis-1,2-Dichloroethene	ug/L	70	1020	360	38	45	5.0 U	5.0 U	5.0 U	160 ^a		3800 ^a	8500 ^a
cis-1,3-Dichloropropene	ug/L	2	11.9	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-		-	5.0 U

DRY Well

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:			MW-CRA-2S		MW-CRA-2S		MW-CRA-2S		MW-CRA-3B		MW-CRA-3B		MW-CRA-3B		MW-CRA-3B		MW-CRA-4S		MW-CRA-4S		MW-CRA-5B		MW-CRA-5B			
Sample ID:			Type 1	Type 4	GW-032709-DJB-008		GW-052711-DJB-104		GW-035029-022713-SAG-007		GW-031505-DJB-002		GW-032709-DJB-009		GW-060211-DJB-111		GW-035029-022713-SAG-008		GW-031505-DJB-001		GW-051305-DJB-001		GW-040809-SAG-109			
Sample Date:			RRS	RRS	3/27/2009		5/27/2011		2/27/2013		3/15/2005		3/27/2009		6/2/2011		2/27/2013		3/15/2005		2/27/2013		5/13/2005		4/8/2009	
Sample Area:			CRITERIA		On-site		On-site		On-site		On-site		On-site		On-site		On-site		Off-site		Off-site		Off-site		Off-site	
			Units	a	b																					
Cyclohexane			ug/L	5	17500	5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		
Cymene (p-Isopropyltoluene)			ug/L	NR	NR	-		-		-		-		-		-		-		-		-		-		
Dibromochloromethane			ug/L	100	341	5.0 U		5.0 U		5.0 U		-		5.0 U		5.0 U		5.0 U		-		-		5.0 U		
Dibromomethane			ug/L	400	1020	-		-		-		-		-		-		-		-		-		-		
Dichlorodifluoromethane (CFC-12)			ug/L	1000	1000	10 U		10 U		10 U		-		10 U		10 U		10 U		-		-		10 U		
Ethylbenzene			ug/L	700	700	1.1 J		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		2.8 J		
Hexachlorobutadiene			ug/L	10	33.7	-		-		-		-		-		-		-		-		-		-		
Isopropylbenzene			ug/L	5	1050	5.0 U		5.0 U		5.0 U		5.0 U		2.0 J		5.0 U		5.0 U		5.0 U		5.0 U		8.5 ^a		
m&p-Xylene			ug/L	10000	10000	-		-		-		10 U		-		-		-		10 U		10 U		-		
Methyl acetate			ug/L	NR	NR	5.0 U		5.0 U		5.0 U		-		5.0 U		5.0 U		5.0 U		-		-		5.0 U		
Methyl cyclohexane			ug/L	NR	NR	2.7 J		5.0 U		14 ^p		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		8.0		
Methyl Tert Butyl Ether			ug/L	NR	NR	5.0 U		5.0 U		5.0 U		-		5.0 U		5.0 U		5.0 U		-		-		5.0 U		
Methylene chloride			ug/L	5	119	5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		12 ^a		67 ^a		
Naphthalene			ug/L	20	20	-		-		-		-		-		-		-		-		-		-		
n-Butylbenzene			ug/L	NR	NR	-		-		-		-		-		-		-		-		-		-		
n-Propylbenzene			ug/L	NR	NR	-		-		-		-		-		-		-		-		-		-		
o-Xylene			ug/L	10000	10000	-		-		-		5.0 U		-		-		-		5.0 U		20		-		
Styrene			ug/L	100	2560	5.0 U		5.0 U		5.0 U		-		5.0 U		5.0 U		5.0 U		-		-		5.0 U		
tert-Butylbenzene			ug/L	NR	NR	-		-		-		-		-		-		-		-		-		-		
Tetrachloroethene			ug/L	5	5	140 ^p		11 ^{ap}		12 ^p		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		58 ^a		76 ^a		
Toluene			ug/L	1000	5240	5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		27		24		
trans-1,2-Dichloroethene			ug/L	100	161	1.7 J		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.8		18		
trans-1,3-Dichloropropene			ug/L	2	11.9	5.0 U		5.0 U		5.0 U		-		5.0 U		5.0 U		5.0 U		-		-		5.0 U		
Trichloroethene			ug/L	5	34.5	350 ^p		27		19		5.0 U		1.2 J		5.0 U		5.0 U		24 ^a		680 ^a		620 ^a		
Trichlorofluoromethane (CFC-11)			ug/L	2000	2000	2.1 J		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		
Trifluorotrichloroethane (Freon 113)			ug/L	1000000	1000000	3.1 J		10 U		10 U		-		10 U		10 U		10 U		-		-		900		
Vinyl chloride			ug/L	2	3.27	2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.0 U		2.3 ^a		250 ^a		970 ^a		
Xylene (total)			ug/L	10000	10000	5.0 U		5.0 U		5.0 U		-		5.0 U		5.0 U		5.0 U		-		-		46		

Notes:

Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a).
The Remainder of the Wells are compared to Type 4 RRS (b).
Exceedance of RRS is noted in bold with letter to show which standard was used.
NV- No Value
NR - Not Regulated
J - Estimated, below Quantitation Limits.
5.0 U - Below assocaited reporting limit.
"--" - Not analyzed.
ug/L - Micrograms per Liter

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:			MW-CRA-5B	MW-CRA-5B	MW-CRA-5S	MW-CRA-5S	MW-CRA-5S	MW-CRA-5S	MW-CRA-6S	MW-CRA-6S	MW-CRA-6S	MW-CRA-6S		
Sample ID:			Type 1	Type 4	GW-060111-DJB-108	GW-035029-022613-SAG-006	GW-051305-DJB-002	GW-040809-SAG-108	GW-060111-DJB-109	GW-022613-DJB-105	GW-072106-DJB-103	GW-031809-DJB-001	GW-060211-DJB-112	GW-022713-AWY-201
Sample Date:			RRS	RRS	6/1/2011	2/26/2013	5/13/2005	4/8/2009	6/1/2011	2/26/2013	7/21/2006	3/18/2009	6/2/2011	2/27/2013
Sample Area:			CRITERIA		Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site
			Units	a	b									
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	ug/L	70	100	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	ug/L	200	13600	7.0	9.0	5.0 U	5.0 U	5.0 U	5.0 U	280	300	150	260	
1,1,2,2-Tetrachloroethane	ug/L	5	12.8	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
1,1,2-Trichloroethane	ug/L	5	46.4	9.3 ^a	13 ^a	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
1,1-Dichloroethane	ug/L	4000	4000	440	470	5.7	2.5 J	110	44	9.3	22	27	48	
1,1-Dichloroethene	ug/L	7	524	130 ^a	220 ^a	9.7 ^a	7.0	47 ^a	31 ^a	5 U	19	14	59	
1,1-Dichloropropene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
1,2,3-Trichlorobenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
1,2,3-Trichloropropane	ug/L	40	40	-	-	-	-	-	-	-	-	-	-	
1,2,4-Trichlorobenzene	ug/L	70	70	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
1,2,4-Trimethylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	5	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.05	5	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
1,2-Dichlorobenzene	ug/L	600	600	12	12	5.0 U	5.0 U	5.0 U	5.0 U	8.4	9.1	8.4	12	
1,2-Dichloroethane	ug/L	5	5	12 ^o	14 ^a	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
1,2-Dichloropropane	ug/L	5	7.41	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
1,3,5-Trimethylbenzene	ug/L	NR	NR	-	5.0 U	-	-	-	5.0 U	-	-	-	5.0 U	
1,3-Dichlorobenzene	ug/L	600	600	5.0 U	-	-	5.0 U	5.0 U	-	5 U	5.0 U	5.0 U	-	
1,3-Dichloropropane	ug/L	NV	2040	-	-	-	-	-	-	-	-	-	-	
1,4-Dichlorobenzene	ug/L	75	75	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	1.7 J	5.0 U	5.0 U	
1,4-Dioxane	ug/L	NV	260	550 ^o	1000 ^o	-	150 U	150 U	150 U	-	150 U	150 U	150 U	
2,2-Dichloropropane	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
2-Butanone (Methyl Ethyl Ketone)	ug/L	2000	11800	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	
2-Chlorotoluene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
2-Hexanone	ug/L	NR	NR	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
2-Phenylbutane (sec-Butylbenzene)	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
4-Chlorotoluene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	2000	4230	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acetone	ug/L	4000	45600	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	
Benzene	ug/L	5	8.91	77 ^o	75 ^a	5.0 U	5.0 U	7.3 ^a	5.0 U	990 ^o	790 ^o	290 ^o	710 ^o	
Bromobenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	ug/L	100	100	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
Bromoform	ug/L	100	100	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
Bromomethane (Methyl Bromide)	ug/L	10	13.2	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
Carbon disulfide	ug/L	4000	4000	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
Carbon tetrachloride	ug/L	5	5	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
Chlorobenzene	ug/L	100	136	26	38	5.0 U	5.0 U	5.2	5.0 U	5 U	1.9 J	5.0 U	5.0 U	
Chlorobromomethane	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	
Chloroethane	ug/L	10	29200	21 ^a	35 ^a	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chloroform (Trichloromethane)	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	
Chloromethane (Methyl Chloride)	ug/L	3	148	10 U	10 U	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
cis-1,2-Dichloroethene	ug/L	70	1020	9900 ^a	14000 ^a	260 ^a	74 ^a	2200 ^a	1500 ^a	17000 ^o	25000 ^o	10000 ^o	49000 ^o	
cis-1,3-Dichloropropene	ug/L	2	11.9	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:				MW-CRA-5B	MW-CRA-5B		MW-CRA-5S	MW-CRA-5S	MW-CRA-5S	MW-CRA-5S		MW-CRA-6S	MW-CRA-6S	MW-CRA-6S	MW-CRA-6S
Sample ID:	Type 1	Type 4		GW-060111-DJB-108	GW-035029-022613-SAG-006		GW-051305-DJB-002	GW-040809-SAG-108	GW-060111-DJB-109	GW-022613-DJB-105		GW-072106-DJB-103	GW-031809-DJB-001	GW-060211-DJB-112	GW-022713-AWY-201
Sample Date:	RRS	RRS		6/1/2011	2/26/2013		5/13/2005	4/8/2009	6/1/2011	2/26/2013		7/21/2006	3/18/2009	6/2/2011	2/27/2013
Sample Area:	CRITERIA			Off-site	Off-site		Off-site	Off-site	Off-site	Off-site		Off-site	Off-site	Off-site	Off-site
	Units	a	b												
Cyclohexane	ug/L	5	17500	5.0 U	8.9 ^a	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	80	92	72	120	
Cymene (p-Isopropyltoluene)	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	100	341	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	ug/L	400	1020	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	1000	1000	17	20	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	700	700	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	130	130	120	110	
Hexachlorobutadiene	ug/L	10	33.7	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	ug/L	5	1050	8.2 ^a	9.1 ^a	27 ^a	5.0 U	5.0 U	5.0 U	5.0 U	18	18	11	12	
m&p-Xylene	ug/L	10000	10000	-	-	10 U	-	-	-	-	260	-	-	-	-
Methyl acetate	ug/L	NR	NR	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	NR	NR	5.0 U	6.6 ^a	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	82	92	71	110 ^o	
Methyl Tert Butyl Ether	ug/L	NR	NR	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	119	53 ^a	40 ^a	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	20	20	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	10000	10000	-	-	5.0 U	-	-	-	-	160	-	-	-	-
Styrene	ug/L	100	2560	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	5	5	53 ^a	55 ^a	5.0 U	1.9 J	15 ^a	8.2 ^a	620 ^o	620 ^o	870 ^o	280 ^{ao}	620 ^o	
Toluene	ug/L	1000	5240	20	41	5.4	5.0 U	5.0 U	5.0 U	5.0 U	2400	2200	1100	1500	
trans-1,2-Dichloroethene	ug/L	100	161	33	40	5.0 U	5.0 U	5.0 U	6.3	5.0 U	200 ^o	320 ^o	140	900 ^o	
trans-1,3-Dichloropropene	ug/L	2	11.9	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	34.5	280 ^a	400 ^a	61 ^a	21 ^a	140 ^a	73 ^a	710 ^o	660 ^o	180 ^{ao}	490 ^o		
Trichlorofluoromethane (CFC-11)	ug/L	2000	2000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1300	1600	410	1700	
Trifluorotrichloroethane (Freon 113)	ug/L	1000000	1000000	540	710	-	17	150	59	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	3.27	770 ^a	950 ^a	7.7 ^a	2.0 U	90 ^a	68 ^a	120 ^o	360 ^o	350 ^{ao}	49 ^o		
Xylene (total)	ug/L	10000	10000	62	52	-	5.0 U	5.0 U	5.0 U	5.0 U	-	600	410	580	

Notes:

Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a).
The Remainder of the Wells are compared to Type 4 RRS (b).
Exceedance of RRS is noted in bold with letter to show which standard was used.
NV- No Value
NR - Not Regulated
J - Estimated, below Quantitation Limits.
5.0 U - Below assocaited reporting limit.
"--" - Not analyzed.
ug/L - Micrograms per Liter

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:			MW-CRA-7S		MW-CRA-7S		MW-CRA-7S		MW-CRA-7S		MW-CRA-7S		MW-CRA-7S		MW-CRA-8B		MW-CRA-8B		MW-CRA-8B		MW-CRA-8B	
Sample ID:			Type 1	Type 4	GW-101906-TBM-001	GW-010207-SAG-001	GW-012808-TBM-001	GW-032709-SAG-102	GW-060111-DJB-107	GW-035029-022613-SAG-004	GW-035029-022613-SAG-005	GW-012808-TBM-002	GW-032709-SAG-103	GW-060111-DJB-110	GW-022613-DJB-104							
Sample Date:			RRS	RRS	10/19/2006	1/2/2007	1/28/2008	3/27/2009	6/1/2011	2/26/2013	2/26/2013	1/28/2008	3/27/2009	6/1/2011	2/26/2013							
Sample Area:			CRITERIA		Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site							
Units			a	b																		
Volatile Organic Compounds																						
1,1,1,2-Tetrachloroethane	ug/L	70	100	-	-	-	-	-	-	-	-	-	-	-	-							
1,1,1-Trichloroethane	ug/L	200	13600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,1,2,2-Tetrachloroethane	ug/L	5	12.8	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,1,2-Trichloroethane	ug/L	5	46.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,1-Dichloroethane	ug/L	4000	4000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,1-Dichloroethene	ug/L	7	524	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,1-Dichloropropene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
1,2,3-Trichlorobenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
1,2,3-Trichloropropane	ug/L	40	40	-	-	-	-	-	-	-	-	-	-	-	-							
1,2,4-Trichlorobenzene	ug/L	70	70	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,2,4-Trimethylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	5	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.05	5	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,2-Dichlorobenzene	ug/L	600	600	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,2-Dichloroethane	ug/L	5	5	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,2-Dichloropropane	ug/L	5	7.41	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,3,5-Trimethylbenzene	ug/L	NR	NR	-	-	-	-	-	-	5.0 U	5.0 U	-	-	-	5.0 U							
1,3-Dichlorobenzene	ug/L	600	600	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-							
1,3-Dichloropropane	ug/L	NV	2040	-	-	-	-	-	-	-	-	-	-	-	-							
1,4-Dichlorobenzene	ug/L	75	75	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
1,4-Dioxane	ug/L	NV	260	-	-	-	150 U	150 U	150 U	150 U	150 U	-	150 U	150 U	150 U							
2,2-Dichloropropane	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
2-Butanone (Methyl Ethyl Ketone)	ug/L	2000	11800	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U							
2-Chlorotoluene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
2-Hexanone	ug/L	NR	NR	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U							
2-Methylnaphthalene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
2-Phenylbutane (sec-Butylbenzene)	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
4-Chlorotoluene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	2000	4230	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U							
Acetone	ug/L	4000	45600	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U							
Benzene	ug/L	5	8.91	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Bromobenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
Bromodichloromethane	ug/L	100	100	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Bromoform	ug/L	100	100	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Bromomethane (Methyl Bromide)	ug/L	10	13.2	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Carbon disulfide	ug/L	4000	4000	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Carbon tetrachloride	ug/L	5	5	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Chlorobenzene	ug/L	100	136	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Chlorobromomethane	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-	-	-							
Chloroethane	ug/L	10	29200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U							
Chloroform (Trichloromethane)	ug/L	100	100	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
Chloromethane (Methyl Chloride)	ug/L	3	148	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U							
cis-1,2-Dichloroethene	ug/L	70	1020	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							
cis-1,3-Dichloropropene	ug/L	2	11.9	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U							

TABLE 3

GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:			MW-CRA-7S	MW-CRA-7S	MW-CRA-7S	MW-CRA-7S	MW-CRA-7S	MW-CRA-7S	MW-CRA-7S	MW-CRA-8B	MW-CRA-8B	MW-CRA-8B	MW-CRA-8B
Sample ID:	Type 1	Type 4	GW-101906-TBM-001	GW-010207-SAG-001	GW-012808-TBM-001	GW-032709-SAG-102	GW-060111-DJB-107	GW-035029-022613-SAG-004	GW-035029-022613-SAG-005	GW-012808-TBM-002	GW-032709-SAG-103	GW-060111-DJB-110	GW-022613-DJB-104
Sample Date:	RRS	RRS	10/19/2006	1/2/2007	1/28/2008	3/27/2009	6/1/2011	2/26/2013	2/26/2013	1/28/2008	3/27/2009	6/1/2011	2/26/2013
Sample Area:	CRITERIA		Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site	Off-site
	Units	a	b							Duplicate			
Cyclohexane	ug/L	5	17500	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cymene (p-Isopropyltoluene)	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	100	341	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	ug/L	400	1020	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	1000	1000	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	700	700	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Hexachlorobutadiene	ug/L	10	33.7	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	ug/L	5	1050	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
m&p-Xylene	ug/L	10000	10000	10 U	10 U	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	NR	NR	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	NR	NR	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	ug/L	NR	NR	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	119	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	20	20	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-
n-Propylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	10000	10000	5.0 U	5.0 U	-	-	-	-	-	-	-	-
Styrene	ug/L	100	2560	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	ug/L	NR	NR	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	5	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	1000	5240	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	100	161	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	2	11.9	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	34.5	22 ^a	7.3 ^a	5.0 U	1.6 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	2000	2000	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1000000	1000000	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl chloride	ug/L	2	3.27	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	2.0 U	5.0 U	2.0 U	2.0 U	2.0 U
Xylene (total)	ug/L	10000	10000	-	-	10 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U

Notes:

Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a).
The Remainder of the Wells are compared to Type 4 RRS (b).
Exceedance of RRS is noted in bold with letter to show which standard was used.
NV- No Value
NR - Not Regulated
J - Estimated, below Quantitation Limits.
5.0 U - Below assocaited reporting limit.
"--" - Not analyzed.
ug/L - Micrograms per Liter

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:				MW-CRA-9S		MW-CRA-9S		MW-CRA-9S		MW-17B		MW-17B		MW-17B		MW-17B		MW-17B		MW-17R		MW-17R						
Sample ID:				Type 1	Type 4	GW-040809-SAG-106		GW-052511-BAH-002		GW-035029-022613-SAG-003		GW-009		GW-071306-TBM-003		GW-031809-DJB-004		GW-031809-DJB-005		GW-060211-DJB-113		GW-035029-022813-SAG-010		GW-010		GW-071306-TBM-002		
Sample Date:				RRS	RRS	4/8/2009		5/25/2011		2/26/2013		6/11/2004		7/13/2006		3/18/2009		3/18/2009		6/2/2011		2/28/2013		6/11/2004		7/13/2006		
Sample Area:				CRITERIA		Off-site		Off-site		Off-site		On-site		On-site		On-site		On-site		On-site		On-site		On-site		On-site		
				Units	a	b																						
Volatile Organic Compounds																												
1,1,1,2-Tetrachloroethane				ug/L	70	100	-		-		-		100 U		-		-		-		-		-		1000 U		-	
1,1,1-Trichloroethane				ug/L	200	13600	5.0 U		5.0 U		5.0 U		50 U		1400		720		720		480		190		1300		5.0 U	
1,1,2,2-Tetrachloroethane				ug/L	5	12.8	5.0 U		5.0 U		5.0 U		100 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		1000 U		5.0 U	
1,1,2-Trichloroethane				ug/L	5	46.4	5.0 U		5.0 U		5.0 U		50 U		16		120 ^p		110 ^p		220 ^{ap}		160 ^p		500 U		5.0 U	
1,1-Dichloroethane				ug/L	4000	4000	5.0 U		5.0 U		5.0 U		50 U		880		1000		990		1600		1100		1300		46	
1,1-Dichloroethene				ug/L	7	524	5.0 U		5.0 U		5.0 U		50 U		400		490		460		520		260		500 U		13	
1,1-Dichloropropene				ug/L	NR	NR	-		-		-		50 U		-		-		-		-		-		500 U		-	
1,2,3-Trichlorobenzene				ug/L	NR	NR	-		-		-		250 U		-		-		-		-		-		2500 U		-	
1,2,3-Trichloropropane				ug/L	40	40	-		-		-		100 U		-		-		-		-		-		1000 U		-	
1,2,4-Trichlorobenzene				ug/L	70	70	5.0 U		5.0 U		5.0 U		250 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		2500 U		5.0 U	
1,2,4-Trimethylbenzene				ug/L	NR	NR	-		-		-		100 U		-		-		-		-		-		1000 U		-	
1,2-Dibromo-3-chloropropane (DBCP)				ug/L	0.2	5	5.0 U		5.0 U		5.0 U		250 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		2500 U		5.0 U	
1,2-Dibromoethane (Ethylene Dibromide)				ug/L	0.05	5	5.0 U		5.0 U		5.0 U		50 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		500 U		5.0 U	
1,2-Dichlorobenzene				ug/L	600	600	5.0 U		5.0 U		5.0 U		100 U		12		15		15		18		11		1000 U		5.0 U	
1,2-Dichloroethane				ug/L	5	5	5.0 U		5.0 U		5.0 U		50 U		5.0 U		280 ^p		260 ^p		230 ^{ap}		230 ^p		500 U		5.0 U	
1,2-Dichloropropane				ug/L	5	7.41	5.0 U		5.0 U		5.0 U		50 U		5.0 U		3.4 J		3.3 J		5.0 U		5.0 U		500 U		5.0 U	
1,3,5-Trimethylbenzene				ug/L	NR	NR	-		-		5.0 U		100 U		-		-		-		-		5.0 U		1000 U		-	
1,3-Dichlorobenzene				ug/L	600	600	5.0 U		5.0 U		-		100 U		5.0 U		5.0 U		5.0 U		5.0 U		-		1000 U		5.0 U	
1,3-Dichloropropane				ug/L	NV	2040	-		-		-		50 U		-		-		-		-		-		500 U		-	
1,4-Dichlorobenzene				ug/L	75	75	5.0 U		5.0 U		5.0 U		100 U		5.0 U		3.5 J		3.6 J		5.0 U		5.0 U		1000 U		5.0 U	
1,4-Dioxane				ug/L	NV	260	150 U		150 U		150 U		-		-		150 U		150 U		150 U		150 U		-		-	
2,2-Dichloropropane				ug/L	NR	NR	-		-		-		50 U		-		-		-		-		-		500 U		-	
2-Butanone (Methyl Ethyl Ketone)				ug/L	2000	11800	50 U		50 U		50 U		-		36000 ^p		50 U		50 U		50 U		50 U		-		50 U	
2-Chlorotoluene				ug/L	NR	NR	-		-		-		100 U		-		-		-		-		-		1000 U		-	
2-Hexanone				ug/L	NR	NR	10 U		10 U		10 U		-		320		27		25		19		11		-		10 U	
2-Methylnaphthalene				ug/L	NR	NR	-		-		-		250 U		-		-		-		-		-		2500 U		-	
2-Phenylbutane (sec-Butylbenzene)				ug/L	NR	NR	-		-		-		100 U		-		-		-		-		-		1000 U		-	
4-Chlorotoluene				ug/L	NR	NR	-		-		-		100 U		-		-		-		-		-		1000 U		-	
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)				ug/L	2000	4230	10 U		10 U		10 U		-		27000 ^p		790		810		89		10 U		-		40	
Acetone				ug/L	4000	45600	50 U		50 U		50 U		-		8400		770		770		460		200		-		50 U	
Benzene				ug/L	5	8.91	5.0 U		5.0 U		5.0 U		50 U		1400 ^p		1200 ^p		1200 ^p		1500 ^{ap}		870 ^p		1800 ^p		17 ^p	
Bromobenzene				ug/L	NR	NR	-		-		-		100 U		-		-		-		-		-		1000 U		-	
Bromodichloromethane				ug/L	100	100	5.0 U		5.0 U		5.0 U		100 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		1000 U		5.0 U	
Bromoform				ug/L	100	100	5.0 U		5.0 U		5.0 U		100 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		1000 U		5.0 U	
Bromomethane (Methyl Bromide)				ug/L	10	13.2	5.0 U		5.0 U		5.0 U		250 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		2500 U		5.0 U	
Carbon disulfide				ug/L	4000	4000	5.0 U		5.0 U		5.0 U		-		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		-		5.0 U	
Carbon tetrachloride				ug/L	5	5	5.0 U		5.0 U		5.0 U		50 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		500 U		5.0 U	
Chlorobenzene				ug/L	100	136	5.0 U		5.0 U		5.0 U		50 U		16		11		11		11		6.3		500 U		5.0 U	
Chlorobromomethane				ug/L	NR	NR	-		-		-		100 U		-		-		-		-		-		1000 U		-	
Chloroethane				ug/L	10	29200	10 U		10 U		10 U		250 U		27		710		680		400		410		2500 U		30	
Chloroform (Trichloromethane)				ug/L	100	100	5.0 U		5.0 U		5.0 U		50 U		10		4.5 J		4.6 J		5.0 U		5.0 U		500 U		5.0 U	
Chloromethane (Methyl Chloride)				ug/L	3	148	10 U		10 U		10 U		250 U		10 U		10 U		1.6 J		10 U		10 U		2500 U		10 U	
cis-1,2-Dichloroethene				ug/L	70	1020	5.0 U		5.0 U		5.0 U		2400 ^p		67000 ^p		61000 ^p		62000 ^p		54000 ^{ap}		26000 ^p		59000 ^p		2300 ^p	
cis-1,3-Dichloropropene				ug/L	2	11.9	5.0 U		5.0 U		5.0 U		50 U		5.0 U		5.0 U		5.0 U		5.0 U		5.0 U		500 U		5.0 U	

TABLE 3
GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:				MW-CRA-9S	MW-CRA-9S	MW-CRA-9S	MW-17B	MW-17B	MW-17B	MW-17B	MW-17B	MW-17B	MW-17R	MW-17R
Sample ID:	Type 1	Type 4		GW-040809-SAG-106	GW-052511-BAH-002	GW-035029-022613-SAG-003	GW-009	GW-071306-TBM-003	GW-031809-DJB-004	GW-031809-DJB-005	GW-060211-DJB-113	GW-035029-022813-SAG-010	GW-010	GW-071306-TBM-002
Sample Date:	RRS	RRS		4/8/2009	5/25/2011	2/26/2013	6/11/2004	7/13/2006	3/18/2009	3/18/2009	6/2/2011	2/28/2013	6/11/2004	7/13/2006
Sample Area:				Off-site	Off-site	Off-site	On-site	On-site	On-site	On-site	On-site	On-site	On-site	On-site
	Units													
		a	b											
Cyclohexane	ug/L	5	17500	5.0 U	5.0 U	5.0 U	-	65	100	100	5.0 U	89	-	5.0 U
Cymene (p-Isopropyltoluene)	ug/L	NR	NR	-	-	-	100 U	-	-	-	-	-	1000 U	-
Dibromochloromethane	ug/L	100	341	5.0 U	5.0 U	5.0 U	100 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	1000 U	5.0 U
Dibromomethane	ug/L	400	1020	-	-	-	100 U	-	-	-	-	-	1000 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	1000	1000	10 U	10 U	10 U	250 U	10 U	10 U	10 U	10 U	10 U	2500 U	10 U
Ethylbenzene	ug/L	700	700	5.0 U	5.0 U	5.0 U	50 U	470	610	610	730 ^{ab}	350	500 U	6.4
Hexachlorobutadiene	ug/L	10	33.7	-	-	-	250 U	-	-	-	-	-	2500 U	-
Isopropylbenzene	ug/L	5	1050	5.0 U	5.0 U	5.0 U	100 U	15	34	37	20	20	1000 U	5.0 U
m&p-Xylene	ug/L	10000	10000	-	-	-	100	1000	-	-	-	-	1200	17
Methyl acetate	ug/L	NR	NR	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	5.0 U
Methyl cyclohexane	ug/L	NR	NR	5.0 U	5.0 U	5.0 U	-	42	88	87	95	69 ^p	-	5.0 U
Methyl Tert Butyl Ether	ug/L	NR	NR	5.0 U	5.0 U	5.0 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2500 U	5.0 U
Methylene chloride	ug/L	5	119	5.0 U	5.0 U	5.0 U	250 U	26	47	42	64	42	2500 U	5.0 U
Naphthalene	ug/L	20	20	-	-	-	250 U	-	-	-	-	-	2500 U	-
n-Butylbenzene	ug/L	NR	NR	-	-	-	100 U	-	-	-	-	-	1000 U	-
n-Propylbenzene	ug/L	NR	NR	-	-	-	100 U	-	-	-	-	-	1000 U	-
o-Xylene	ug/L	10000	10000	-	-	-	50 U	410	-	-	-	-	560	6.6
Styrene	ug/L	100	2560	5.0 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	500 U	5.0 U
tert-Butylbenzene	ug/L	NR	NR	-	-	-	100 U	-	-	-	-	-	1000 U	-
Tetrachloroethene	ug/L	5	5	5.0 U	5.0 U	5.0 U	50 U	51 ^p	23 ^p	23 ^p	21 ^{ab}	9.6 ^p	500 U	5.0 U
Toluene	ug/L	1000	5240	5.0 U	5.0 U	5.0 U	150	9700 ^p	12000 ^p	12000 ^p	9800 ^{ab}	6700 ^p	10000 ^p	170
trans-1,2-Dichloroethene	ug/L	100	161	5.0 U	5.0 U	5.0 U	50 U	140	270 ^p	270 ^p	440 ^{ab}	220 ^p	500 U	14
trans-1,3-Dichloropropene	ug/L	2	11.9	5.0 U	5.0 U	5.0 U	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	500 U	5.0 U
Trichloroethene	ug/L	5	34.5	5.0 U	5.0 U	5.0 U	50 U	47 ^p	21	20	27	20	500 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	2000	2000	5.0 U	5.0 U	5.0 U	250 U	58	66	56	5.0 U	23	2500 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1000000	1000000	10 U	10 U	10 U	-	10 U	58	53	51	35	-	10 U
Vinyl chloride	ug/L	2	3.27	2.0 U	2.0 U	2.0 U	100 U	780 ^p	7000 ^p	7100 ^p	4500 ^{ab}	10000 ^p	1300 ^p	110 ^p
Xylene (total)	ug/L	10000	10000	5.0 U	5.0 U	5.0 U	-	-	3000	2900	3400	1700	-	-

Notes:

Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a).
The Remainder of the Wells are compared to Type 4 RRS (b).
Exceedance of RRS is noted in bold with letter to show which standard was used.
NV- No Value
NR - Not Regulated
J - Estimated, below Quantitation Limits.
5.0 U - Below assocaited reporting limit.
"--" - Not analyzed.
ug/L - Micrograms per Liter

TABLE 3

GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:			MW-17R	MW-17R	MW-17R	MW-18R	MW-18R	MW-18R	MW-18R	ARIVEC WELL AW-2	AW-2	AW-2	AW-2	
Sample ID:	Type 1	Type 4	GW-031809-DJB-006	GW-060211-DJB-114	GW-022813-DJB-106	GW-011	GW-040809-SAG-107	GW-060211-DJB-115	GW-035029-022713-SAG-009	GW-071306-DJB-102	GW-031809-DJB-003	GW-060311-DJB-116	GW-022713-AWY-203	
Sample Date:	RRS	RRS	3/18/2009	6/2/2011	2/28/2013	6/11/2004	4/8/2009	6/2/2011	2/27/2013	7/13/2006	3/18/2009	6/3/2011	2/27/2013	
Sample Area:	CRITERIA		On-site	On-site	On-site	Off-site	On-site	On-site	On-site	On-site	On-site	On-site	On-site	
	Units	a	b											
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	ug/L	70	100	-	-	-	2 U	-	-	-	-	-	-	
1,1,1-Trichloroethane	ug/L	200	13600	65	110	5.0 U	1 U	5.0 U	5.0 U	5.0 U	98	33	88	50
1,1,2,2-Tetrachloroethane	ug/L	5	12.8	5.0 U	5.0 U	5.0 U	2 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5	46.4	5.0 U	5.0 U	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	4000	4000	32	98	5.0 U	7.5	4.3 J	5.0 U	5.0 U	260	65	130	88
1,1-Dichloroethene	ug/L	7	524	15	46	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	25	49	71
1,1-Dichloropropene	ug/L	NR	NR	-	-	-	1 U	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	ug/L	NR	NR	-	-	-	5 U	-	-	-	-	-	-	-
1,2,3-Trichloropropane	ug/L	40	40	-	-	-	2 U	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	70	70	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	5	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.05	5	5.0 U	5.0 U	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	600	600	5.0 U	5.0 U	5.0 U	2 U	5.0 U	5.0 U	5.0 U	5.0 U	1.8 J	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5	5	3.6 J	9.4 ^{ab}	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5	7.41	5.0 U	5.0 U	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	NR	NR	-	-	5.0 U	2 U	-	-	5.0 U	-	-	-	5.0 U
1,3-Dichlorobenzene	ug/L	600	600	5.0 U	5.0 U	-	2 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	-
1,3-Dichloropropane	ug/L	NV	2040	-	-	-	1 U	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	75	75	5.0 U	5.0 U	5.0 U	2 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	ug/L	NV	260	150 U	150 U	150 U	-	150 U	150 U	150 U	-	150 U	150 U	150 U
2,2-Dichloropropane	ug/L	NR	NR	-	-	-	1 U	-	-	-	-	-	-	-
2-Butanone (Methyl Ethyl Ketone)	ug/L	2000	11800	50 U	50 U	50 U	-	50 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Chlorotoluene	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
2-Hexanone	ug/L	NR	NR	10 U	24	10 U	-	10 U	10 U	10 U	13	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	NR	NR	-	-	-	5 U	-	-	-	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
4-Chlorotoluene	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	2000	4230	13	390	10 U	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	4000	45600	28 J	83	50 U	-	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Benzene	ug/L	5	8.91	24 ^a	140 ^{ab}	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	10 ^a	32 ^{ab}	38 ^a
Bromobenzene	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	100	100	5.0 U	5.0 U	5.0 U	2 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	100	100	5.0 U	5.0 U	5.0 U	2 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	10	13.2	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	4000	4000	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5	5	5.0 U	5.0 U	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.8 ^a	5.0 U	5.0 U
Chlorobenzene	ug/L	100	136	5.0 U	6.6	5.0 U	1 U	5.0 U	5.0 U	5.0 U	11	3.7 J	8.6	5.0 U
Chlorobromomethane	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
Chloroethane	ug/L	10	29200	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	ug/L	100	100	5.0 U	5.0 U	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	3	148	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,2-Dichloroethene	ug/L	70	1020	3100 ^a	11000 ^{ab}	59	1 U	1.4 J	7.3	5.0 U	260	3300 ^a	8800 ^{ab}	7600 ^a
cis-1,3-Dichloropropene	ug/L	2	11.9	5.0 U	5.0 U	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 3

GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS
FORMER ARIVEC CHEMICALS FACILITY
DOUGLASVILLE, GEORGIA

Sample Location:			MW-17R	MW-17R	MW-17R	MW-18R	MW-18R	MW-18R	MW-18R	ARIVEC WELL AW-2	AW-2	AW-2	AW-2	
Sample ID:	Type 1	Type 4	GW-031809-DJB-006	GW-060211-DJB-114	GW-022813-DJB-106	GW-011	GW-040809-SAG-107	GW-060211-DJB-115	GW-035029-022713-SAG-009	GW-071306-DJB-102	GW-031809-DJB-003	GW-060311-DJB-116	GW-022713-AWY-203	
Sample Date:	RRS	RRS	3/18/2009	6/2/2011	2/28/2013	6/11/2004	4/8/2009	6/2/2011	2/27/2013	7/13/2006	3/18/2009	6/3/2011	2/27/2013	
Sample Area:	CRITERIA		On-site	On-site	On-site	Off-site	On-site	On-site	On-site	On-site	On-site	On-site	On-site	
	Units	a	b											
Cyclohexane	ug/L	5	17500	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	7.0	5.0 U	16
Cymene (p-Isopropyltoluene)	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	100	341	5.0 U	5.0 U	5.0 U	2 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromomethane	ug/L	400	1020	-	-	-	2 U	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	1000	1000	10 U	10 U	10 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	700	700	8.9	66	5.0 U	1 U	5.0 U	5.0 U	5.0 U	40	20	100	23
Hexachlorobutadiene	ug/L	10	33.7	-	-	-	5 U	-	-	-	-	-	-	-
Isopropylbenzene	ug/L	5	1050	5.0 U	5.0 U	5.0 U	2 U	5.0 U	5.0 U	5.0 U	5.0 U	6.8	7.2	9.4
m&p-Xylene	ug/L	10000	10000	-	-	-	2 U	-	-	-	86	-	-	-
Methyl acetate	ug/L	NR	NR	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	NR	NR	3.2 J	24	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	5.4	5.0 U	12 ^p
Methyl Tert Butyl Ether	ug/L	NR	NR	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	119	5.0 U	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	20	20	-	-	-	5 U	-	-	-	-	-	-	-
n-Butylbenzene	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
n-Propylbenzene	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
o-Xylene	ug/L	10000	10000	-	-	-	1 U	-	-	-	28	-	-	-
Styrene	ug/L	100	2560	5.0 U	5.0 U	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	ug/L	NR	NR	-	-	-	2 U	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	5	5	2.3 J	9.6 ^{ap}	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.4 ^p	5.0 U	5.0 U
Toluene	ug/L	1000	5240	640	620	5.0 U	1 U	5.0 U	5.0 U	5.0 U	1100	140	1700	340
trans-1,2-Dichloroethene	ug/L	100	161	18	11	5.0 U	1 U	5.0 U	5.0 U	5.0 U	16	11	39	29
trans-1,3-Dichloropropene	ug/L	2	11.9	5.0 U	5.0 U	5.0 U	1 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	34.5	13	2400 ^{ap}	31	1 U	5.0 U	5.0 U	5.0 U	5.0 U	4.1 J	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	2000	2000	2.4 J	5.0 U	5.0 U	5 U	5.0 U	5.0 U	5.0 U	5.0 U	4.1 J	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	1000000	1000000	10 U	10 U	10 U	-	10 U	10 U	10 U	60	110	330	200
Vinyl chloride	ug/L	2	3.27	23 ^p	1000 ^{ap}	2.0 U	2 U	2.0 U	2.0 U	2.0 U	4500 ^p	1100 ^p	1600 ^{ap}	790 ^p
Xylene (total)	ug/L	10000	10000	46	280	5.0 U	-	5.0 U	5.0 U	5.0 U	-	81	400	110

Notes:

Wells MW-CRA-4S, 5B, 5S, 7S, 8B and B-34 are compared to Type 1 RRS only (a).
The Remainder of the Wells are compared to Type 4 RRS (b).
Exceedance of RRS is noted in bold with letter to show which standard was used.
NV- No Value
NR - Not Regulated
J - Estimated, below Quantitation Limits.
5.0 U - Below assocaited reporting limit.
"--" - Not analyzed.
ug/L - Micrograms per Liter

TABLE 4
GROUNDWATER DATA OVERVIEW
FEBRUARY-MARCH 2013
ARIVEC CHEMICALS SITE
DOUGLASVILLE, GEORGIA

Shallow/Overburden Unit

	<u>Upgradient</u>	<u>Source Area</u>	<u>Downgradient</u>
CVOCs	MW-CRA-1S (6.5 ug/L) MW-CRA-2S (76 ug/L) MW-CRA-6S (53,138 ug/L)	MW-17R (90 ug/L) MW-18R (0 ug/L)	MW-2R (tar in well) MW-9R (208 ug/L) MW-CRA-5S (1,783 ug/L)
Non-CVOCs	MW-CRA-1S (0 ug/L) MW-CRA-2S (14 ug/L) MW-CRA-6S (3,142 ug/L)	MW-17R (0 ug/L) MW-18R (0 ug/L)	MW-2R (tar in well) MW-9R (0 ug/L) MW-CRA-5S (0 ug/L)

Bedrock Unit

CVOCs	MW-CRA-3B (0 ug/L)	MW-17B (38,717 ug/L)	MW-2B ¹ (4,489 ug/L) MW-2B ² (9,647 ug/L) MW-9B ¹ (187 ug/L) MW-9B ² (197 ug/L) AW-2 (8,828 ug/L) MW-CRA-5B (16,989 ug/L) MW-8B (0 ug/L)
Non-CVOCs	MW-CRA-3B (0 ug/L)	MW-17B (10,009 ug/L)	MW-2B ¹ (410 ug/L) MW-2B ² (391 ug/L) MW-9B ¹ (0 ug/L) MW-9B ² (0 ug/L) AW-2 (548 ug/L) MW-CRA-5B (1,193 ug/L) MW-8B (0 ug/L)

Note:

¹ Results from low-flow sampling method

² Results from Passive Diffusion Bag sampling method

ATTACHMENTS

ATTACHMENT A

WELL MONITORING

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 27, 2013
Personnel: Alex Yarbough

Monitoring Well Data:

Well No.: MW-1S
Measurement Point: TOC
Constructed Well Depth (ft): 27.50
Measured Well Depth (ft): 26.50
Total purged Volume (gal): 0.7

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 21
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 13.68

<i>Time</i>	<i>Pumping Rate (mL/min)</i>	<i>Depth to Water (ft)</i>	<i>Drawdown from Initial Water Level (ft)</i>	<i>pH</i>	<i>Temperature ° C</i>	<i>Conductivity (S/m)</i>	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01 ⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
10:45	75	13.77	0.09	6.17	12.44	0.110	-33	0.00	19.00
10:50	75	13.80	0.12	5.49	13.37	0.107	56	0.00	10.90
10:55	75	13.81	0.13	5.48	13.65	0.102	66	0.00	10.40
11:00	75	13.82	0.14	5.48	13.79	0.101	72	0.00	8.42
0:00	75	13.82	0.14	5.48	13.96	0.101	77	0.00	8.11
11:10	75	13.83	0.15	5.49	14.04	0.101	81	0.00	8.01
11:15	75	13.83	0.15	5.49	14.07	0.101	87	0.00	7.98
13:45	Sample Time								
Sample ID:	<u>GW-022713-AWY-202</u>								
	TCL VOCs +	1,4 Dioxane							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
 Ref. No.: 35029

Date: February 27, 2013
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-CRA-2S
 Measurement Point: TOC
 Constructed Well Depth (ft): 12.50
 Measured Well Depth (ft): 15.00
 Total purged Volume (gal): 6.5

Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: 40
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (gal): 1.6
 Initial Depth to Water (ft): 4.12

<i>Time</i>	<i>Pumping Rate (mL/min)</i>	<i>Depth to Water (ft)</i>	<i>Drawdown from Initial Water Level (ft)</i>	<i>pH</i>	<i>Temperature ° C</i>	<i>Conductivity (S/m)</i>	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01 ⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
9:00	75	5.44	1.32	6.22	10.96	0.040	222	3.36	48.1
Excessive drawdown, switched to 3 volume method; 1 volume = 1.75									
Vol (gal)									
2.00	300	10.52	6.40	5.44	12.02	0.039	130	2.19	5.44
4.00	300	12.58	8.46	5.81	12.68	0.048	49	1.61	5.81
6.00	300	14.72	10.60	5.97	12.62	0.048	37	4.63	5.97
9:50	Sample Time								
Sample ID:	<u>GW-035029-022713-SAG-007</u>								
	VOC's								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
 Ref. No.: 35029

Date: February 27, 2013
 Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-CRA-3B
 Measurement Point: TOC
 Constructed Well Depth (ft): 23.50
 Measured Well Depth (ft): 23.30
 Total purged Volume (gal): 9.5

Screen Length (ft): 10
 Depth to Pump Intake (ft)⁽¹⁾: 40
 Well Diameter, D (in): 2
 Well Screen Volume, V_s (gal): 1.6
 Initial Depth to Water (ft): 5.38

<i>Time</i>	<i>Pumping Rate (mL/min)</i>	<i>Depth to Water (ft)</i>	<i>Drawdown from Initial Water Level (ft)</i>	<i>pH</i>	<i>Temperature °C</i>	<i>Conductivity (S/m)</i>	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
10:10	75	5.98	0.60	5.60	13.97	0.129	181	3.27	78.2
Excessive drawdown, switched to 3 volume method; 1 volume = 2.90									
Vol (gal)									
3.00	300	7.37	1.99	5.72	15.08	0.132	76	4.21	50.2
6.00	300	11.35	5.97	5.81	16.19	0.148	20	3.97	26.3
9.00	300	12.48	7.10	5.87	16.40	0.150	-9	3.28	3.94
11:30	Sample Time								
Sample ID:	<u>GW-035029-022713-SAG-008</u>								
	VOC's + MS/MSD								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 26, 2013
Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-CRA-5S
Measurement Point: TOC
Constructed Well Depth (ft): 27.50
Measured Well Depth (ft): 28.40
Total purged Volume (gal): 0.9

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 18
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 0.96
Initial Depth to Water (ft): 14.01

<i>Time</i>	<i>Pumping Rate (mL/min)</i>	<i>Depth to Water (ft)</i>	<i>Drawdown from Initial Water Level (ft)</i>	<i>pH</i>	<i>Temperature °C</i>	<i>Conductivity (S/m)</i>	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
14:55	80	14.17	0.16	4.89	12.10	0.080	306	11.71	31.90
15:00	80	14.17	0.16	4.92	13.05	0.081	331	6.52	28.40
15:05	80	14.17	0.16	4.92	13.41	0.081	350	5.94	24.10
15:10	80	14.17	0.16	4.90	13.51	0.078	373	5.86	21.60
15:15	80	14.17	0.16	4.87	13.38	0.076	383	5.38	20.70
15:20	80	14.17	0.16	4.86	13.68	0.074	386	5.34	19.70
15:30	Sample Time								
Sample ID	<u>GW-022613-DJB-105</u>								
	TCL VICs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 26, 2013
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-CRA-5B
Measurement Point: TOC
Constructed Well Depth (ft): 23.71
Measured Well Depth (ft): 23.90
Total purged Volume (gal): 0.8

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 19
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 13.80

<i>Time</i>	<i>Pumping Rate</i> (mL/min)	<i>Depth to Water</i> (ft)	<i>Drawdown from Initial Water Level</i> (ft)	<i>pH</i>	<i>Temperature</i> °C	<i>Conductivity</i> (S/m)	<i>ORP</i> (mV)	<i>DO</i> (mg/L)	<i>Turbidity</i> (NTU)
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01 ⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
14:40	75	13.80	0.00	4.92	12.81	0.159	554	2.79	1.28
14:45	75	13.80	0.00	4.85	13.16	0.160	558	2.68	0.00
14:50	75	13.80	0.00	4.86	13.53	0.160	556	2.57	0.00
14:55	75	13.80	0.00	4.87	13.77	0.160	554	2.53	0.00
15:00	75	13.80	0.00	4.88	14.14	0.161	552	2.50	0.00
15:05	75	13.80	0.00	4.88	14.26	0.160	552	2.45	0.00
15:10	75	13.80	0.00	4.87	14.53	0.160	551	2.44	0.00
15:15	75	13.80	0.00	4.88	14.70	0.162	549	2.42	0.00
15:20	Sample Time								
Sample ID:	<u>GW-035029-022613-SAG-006</u>								
	VOCs								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 27, 2013
Personnel: Alex Yarbough

Monitoring Well Data:

Well No.: MW-CRA-6S
Measurement Point: TOC
Constructed Well Depth (ft): 15.00
Measured Well Depth (ft): 14.55
Total purged Volume (gal): 6.0

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 10
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 2.20

	<i>Pumping Rate</i>	<i>Depth to Water</i>	<i>Drawdown from Initial Water Level</i>		<i>Temperature</i>	<i>Conductivity</i>	<i>ORP</i>	<i>DO</i>	<i>Turbidity</i>
<i>Time</i>	<i>(mL/min)</i>	<i>(ft)</i>	<i>(ft)</i>	<i>pH</i>	<i>° C</i>	<i>(S/m)</i>	<i>(mV)</i>	<i>(mg/L)</i>	<i>(NTU)</i>
<i>Precision Required :</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>

	volume								
8:24	(gal)	2.69	0.49	6.37	10.22	0.531	-73	5.29	14.40
	1	-	-	6.27	13.11	0.526	-48	0.00	5.11
	2	-	-	6.29	13.33	0.541	-56	0.00	5.38
	3	-	-	6.29	13.45	0.548	-66	0.00	3.05
10:25	Sample Time								
Sample ID:	<u>GW-022713-AWY-201</u>								
	TCL VOCs, 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 26, 2013
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-CRA-7S
Measurement Point: TOC
Constructed Well Depth (ft): 31.50
Measured Well Depth (ft): 30.30
Total purged Volume (gal): 1.0

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 26
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.5
Initial Depth to Water (ft): 22.38

	<i>Pumping Rate</i>	<i>Depth to Water</i>	<i>Drawdown from Initial Water Level</i>		<i>Temperature</i>	<i>Conductivity</i>	<i>ORP</i>	<i>DO</i>	<i>Turbidity</i>
<i>Time</i>	<i>(mL/min)</i>	<i>(ft)</i>	<i>(ft)</i>	<i>pH</i>	<i>° C</i>	<i>(S/m)</i>	<i>(mV)</i>	<i>(mg/L)</i>	<i>(NTU)</i>
<i>Precision Required :</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01 ⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
12:55	75	23.40	1.02	4.53	8.70	0.080	321	5.49	104
13:00	75	23.41	1.03	4.63	8.73	0.079	342	5.33	98.2
13:05	75	23.41	1.03	4.68	8.80	0.078	350	5.18	86.4
13:10	75	23.41	1.03	4.69	9.76	0.076	362	4.97	46.1
13:15	75	23.41	1.03	4.70	10.31	0.074	370	4.92	22.7
13:20	75	23.41	1.03	4.71	10.75	0.074	372	4.72	19.0
13:25	75	23.41	1.03	4.71	11.06	0.073	374	4.61	16.7
13:30	75	23.41	1.03	4.71	11.19	0.073	375	4.63	13.2
13:35	75	23.41	1.03	4.70	11.36	0.073	376	4.61	11.8
13:40	75	23.41	1.03	4.70	12.01	0.072	377	4.58	4.55
13:45 and 13:50			Sample Times						
Sample ID:	<u>GW-035029-022613-SAG-004, and DUPLICATE sample GW-035029-022613-SAG-005</u>								
	VOCs								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 25, 2013
Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-CRA-8B
Measurement Point: TOC
Constructed Well Depth (ft): 27.50
Measured Well Depth (ft): 28.40
Total purged Volume (gal): 1.1

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 23
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 5.55

Time	Pumping Rate	Depth to Water	Drawdown from Initial Water Level	pH	Temperature	Conductivity	ORP	DO	Turbidity
	(mL/min)	(ft)	(ft)		°C	(S/m)	(mV)	(mg/L)	(NTU)
Precision Required:				±0.1 Units	±3 %	±0.005 or 0.01 ⁽³⁾	±10 mV	±10 %	±10 %
13:10	80	5.80	0.25	6.35	10.99	0.132	150	4.25	2.86
13:15	80	5.81	0.26	5.61	11.50	0.084	192	3.62	2.22
13:20	80	5.82	0.27	5.34	11.78	0.070	213	3.06	2.97
13:25	80	5.83	0.28	5.15	12.10	0.062	236	2.45	3.43
13:30	80	5.85	0.30	5.12	12.23	0.060	244	2.27	4.27
13:35	80	5.85	0.30	5.10	12.30	0.059	251	2.12	4.48
13:40	80	5.84	0.29	5.09	12.29	0.058	257	1.96	4.29
13:45	Sample Time								
Sample ID:	<u>GW-022613-DJB-104</u>								
	TCL VOCs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 26, 2013
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-CRA-9S
Measurement Point: TOC
Constructed Well Depth (ft): 18.00
Measured Well Depth (ft): 19.61
Total purged Volume (gal): 0.8

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 16
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.4
Initial Depth to Water (ft): 11.21

<i>Time</i>	<i>Pumping Rate</i> (mL/min)	<i>Depth to Water</i> (ft)	<i>Drawdown from Initial Water Level</i> (ft)	<i>pH</i>	<i>Temperature</i> °C	<i>Conductivity</i> (S/m)	<i>ORP</i> (mV)	<i>DO</i> (mg/L)	<i>Turbidity</i> (NTU)
<i>Precision Required:</i>				± 0.1 Units	± 3 %	± 0.005 or $0.01^{(3)}$	± 10 mV	± 10 %	± 10 %
9:50	75	11.29	0.08	4.66	12.16	0.097	483	0.70	52.9
9:55	75	11.30	0.09	4.64	12.22	0.097	503	0.72	36.1
10:00	75	11.31	0.10	4.63	12.35	0.096	515	0.69	24.4
10:05	75	11.32	0.11	4.61	12.74	0.097	529	0.76	18.0
10:10	75	11.32	0.11	4.61	12.92	0.097	525	0.80	11.2
10:15	75	11.33	0.12	4.61	13.05	0.097	524	0.82	9.91
10:20	75	11.34	0.13	4.61	13.20	0.098	528	0.84	7.86
10:25	75	11.34	0.13	4.61	13.27	0.098	531	0.85	5.71
10:30	Sample Time								
Sample ID:	<u>GW-035029-022613-SAG-003</u>								
	VOCs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ± 0.005 mS/cm or where conductivity >1 mS/cm ± 0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 25, 2013
Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-2B
Measurement Point: TOC
Constructed Well Depth (ft): 168.00
Measured Well Depth (ft): 100+
Total purged Volume (gal): 1.5

Screen Length (ft): 68 (open hole)
Depth to Pump Intake (ft)⁽¹⁾: 146
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 10.88
Initial Depth to Water (ft): 6.48

	<i>Pumping Rate</i>	<i>Depth to Water</i>	<i>Drawdown from Initial Water Level</i>		<i>Temperature</i>	<i>Conductivity</i>	<i>ORP</i>	<i>DO</i>	<i>Turbidity</i>
<i>Time</i>	<i>(mL/min)</i>	<i>(ft)</i>	<i>(ft)</i>	<i>pH</i>	<i>° C</i>	<i>(S/m)</i>	<i>(mV)</i>	<i>(mg/L)</i>	<i>(NTU)</i>
<i>Precision Required :</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01 ⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
10:05		6.82	0.34	7.42	9.41	0.620	138	2.46	2.71
10:10	80	6.90	0.42	7.58	9.36	0.615	129	0.72	2.43
10:15	80	7.11	0.63	7.90	9.40	0.616	92	0.00	2.45
10:20	80	7.22	0.74	7.96	9.58	0.619	50	0.00	2.63
10:25	80	7.36	0.88	8.08	9.83	0.621	26	0.00	1.91
10:30	80	7.39	0.91	8.08	10.09	0.624	7	0.00	2.28
10:35	80	7.43	0.95	8.12	10.26	0.629	-26	0.00	1.99
10:40	80	7.44	0.96	8.15	10.43	0.630	-13	0.00	1.76
10:45	80	7.46	0.98	8.18	10.51	0.632	-19	0.00	1.76
10:50	80	7.47	0.99	8.18	10.62	0.629	-25	0.00	1.86
10:55	80	7.47	0.99	8.20	10.68	0.631	-30	0.00	1.72
11:00	Sample Time								
Sample ID:	<u>GW-022513-DJB-103</u>								
	TCL VOCs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 6975

Date: February 25, 2013
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-9R
Measurement Point: TOC
Constructed Well Depth (ft): 17.00
Measured Well Depth (ft): 19.60
Total purged Volume (gal): 1.0

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 16.5
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 0.9
Initial Depth to Water (ft): 13.88

<i>Time</i>	<i>Pumping Rate</i> (mL/min)	<i>Depth to Water</i> (ft)	<i>Drawdown from Initial Water Level</i> (ft)	<i>pH</i>	<i>Temperature</i> °C	<i>Conductivity</i> (S/m)	<i>ORP</i> (mV)	<i>DO</i> (mg/L)	<i>Turbidity</i> (NTU)
<i>Precision Required:</i>				± 0.1 Units	± 3 %	± 0.005 or 0.01 ⁽³⁾	± 10 mV	± 10 %	± 10 %
14:00	75	13.97	0.09	4.73	13.22	0.105	284	2.94	12.5
14:05	75	14.01	0.13	4.80	13.59	0.076	302	2.48	12.6
14:10	75	14.03	0.15	4.82	13.77	0.073	310	2.53	11.9
14:15	75	14.04	0.16	4.80	13.98	0.074	323	2.44	9.16
14:20	75	14.04	0.16	4.77	14.07	0.075	341	2.30	8.12
14:25	75	14.04	0.16	4.76	14.21	0.076	350	2.22	5.40
14:30	75	14.04	0.16	4.76	14.19	0.076	353	2.19	4.01
14:35	75	14.04	0.16	4.76	14.15	0.075	356	2.17	3.39
14:40	75	14.04	0.16	4.75	14.14	0.076	359	2.15	3.51
14:45	75	14.04	0.16	4.74	14.13	0.076	361	2.14	2.16
14:50	Sample Time								
Sample ID:	<u>GW-035029-022513-SAG-001</u>								
	VOCs +1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm $\pm$ 0.005 mS/cm or where conductivity >1 mS/cm $\pm$ 0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 25, 2013
Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-9B
Measurement Point: TOC
Constructed Well Depth (ft): 197.00
Measured Well Depth (ft): 100+
Total purged Volume (gal): 2.5

Screen Length (ft): 181 (open hole)
Depth to Pump Intake (ft)⁽¹⁾: 150
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 29
Initial Depth to Water (ft): 55.57

<i>Time</i>	<i>Pumping Rate</i> <i>(mL/min)</i>	<i>Depth to Water</i> <i>(ft)</i>	<i>Drawdown from Initial Water Level</i> <i>(ft)</i>	<i>pH</i>	<i>Temperature</i> <i>° C</i>	<i>Conductivity</i> <i>(S/m)</i>	<i>ORP</i> <i>(mV)</i>	<i>DO</i> <i>(mg/L)</i>	<i>Turbidity</i> <i>(NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
14:30	75	55.33	-0.24	11.52	12.93	1.020	5	0.55	114
14:40	75	57.17	1.60	11.59	13.19	1.030	-4	0.00	92.7
14:45	75	59.13	3.56	11.72	13.42	1.040	-24	0.00	70.9
14:50	75	59.52	3.95	11.82	13.08	1.030	-36	0.00	65.2
14:55	75	59.72	4.15	11.84	12.60	1.030	-40	0.00	63.8
15:00	75	60.04	4.47	11.86	12.07	1.030	-43	0.00	59.0
15:05	75	60.20	4.63	11.86	11.62	1.020	-44	0.00	58.2
15:10	75	60.94	5.37	11.84	11.77	1.040	-45	0.00	58.9
15:15	75	62.05	6.48	11.78	13.76	1.050	-47	0.00	43.5
15:20	75	63.02	7.45	11.77	13.84	1.040	-47	0.00	38.60
15:25	75	64.85	9.28	11.81	13.82	1.030	-50	0.00	34.4
15:30	75	65.77	10.20	11.84	13.75	1.030	-53	0.00	28.70
15:35	Sample Time								
Sample ID:		<u>GW-022513-DJB-101</u>							
		TCL VOCs + 1,4 Dioxane							

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 26, 2013
Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-15R
Measurement Point: TOC
Constructed Well Depth (ft): 23.71
Measured Well Depth (ft): 23.90
Total purged Volume (gal): 0.9

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 19
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 4.52

<i>Time</i>	<i>Pumping Rate (mL/min)</i>	<i>Depth to Water (ft)</i>	<i>Drawdown from Initial Water Level (ft)</i>	<i>pH</i>	<i>Temperature °C</i>	<i>Conductivity (S/m)</i>	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
8:50	120	5.02	0.50						
8:55	90	4.98	0.46	4.59	9.90	0.076	240	5.19	1.68
9:05	90	4.96	0.44	4.72	9.93	0.067	242	5.03	1.61
9:10	90	4.97	0.45	4.94	9.94	0.056	247	4.57	1.19
9:15	90	4.98	0.46	5.01	10.13	0.054	251	4.33	0.43
9:20	90	4.99	0.47	5.05	10.36	0.052	256	4.58	0.39
9:30	Sample Time								
Sample ID:	<u>GW-022613-DJB-102</u>								
	TCL VOCs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 26, 2013
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-15B
Measurement Point: TOC
Constructed Well Depth (ft): 77.00
Measured Well Depth (ft): 79.20
Total purged Volume (gal): 0.8

Screen Length (ft): 11 (open hole)
Depth to Pump Intake (ft)⁽¹⁾: 68
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 15.52

	<i>Pumping Rate</i>	<i>Depth to Water</i>	<i>Drawdown from Initial Water Level</i>		<i>Temperature</i>	<i>Conductivity</i>	<i>ORP</i>	<i>DO</i>	<i>Turbidity</i>
<i>Time</i>	<i>(mL/min)</i>	<i>(ft)</i>	<i>(ft)</i>	<i>pH</i>	<i>° C</i>	<i>(S/m)</i>	<i>(mV)</i>	<i>(mg/L)</i>	<i>(NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01 ⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
8:45	75	15.76	0.24	11.23	11.33	0.152	71	6.74	37.5
8:50	75	15.91	0.39	11.32	11.10	0.151	63	6.75	2.31
8:55	75	16.03	0.51	11.49	11.01	0.152	49	6.80	0.00
9:00	75	16.14	0.62	11.54	10.96	0.152	45	6.87	0.00
9:05	75	16.21	0.69	11.52	11.29	0.153	45	6.75	0.00
9:10	75	16.30	0.78	11.53	11.42	0.153	43	6.72	0.00
9:15	75	16.38	0.86	11.54	11.76	0.153	42	6.69	0.00
9:20	75	16.47	0.95	11.55	12.07	0.153	39	6.65	0.00
9:25	Sample Time								
Sample ID:	<u>GW-035029-022613-SAG-002</u>								
	VOCs +1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 28, 2013
Personnel: David Brytowski

Monitoring Well Data:

Well No.: MW-17R
Measurement Point: TOC
Constructed Well Depth (ft): 20.00
Measured Well Depth (ft): 19.75
Total purged Volume (gal): 4.0

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 10
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 7.87

	<i>Pumping Rate</i>	<i>Depth to Water</i>	<i>Drawdown from Initial Water Level</i>		<i>Temperature</i>	<i>Conductivity</i>	<i>ORP</i>	<i>DO</i>	<i>Turbidity</i>
<i>Time</i>	<i>(mL/min)</i>	<i>(ft)</i>	<i>(ft)</i>	<i>pH</i>	<i>° C</i>	<i>(S/m)</i>	<i>(mV)</i>	<i>(mg/L)</i>	<i>(NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>

	Volume								
10:50	1.9 gals	13.06	5.15	5.99	13.66	0.092	152	2.29	159.00
11:10	3.8 gals	18.28	10.41	6.17	13.45	0.091	145	5.02	154.00
11:20	Dry								
12:15	Sample Time								
Sample ID:	<u>GW-022813-DJB-106</u>								
	TCL VOCs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 28, 2013
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-17B
Measurement Point: TOC
Constructed Well Depth (ft): 47.00
Measured Well Depth (ft): 49.30
Total purged Volume (gal): 0.8

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 45
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 14.67

<i>Time</i>	<i>Pumping Rate (mL/min)</i>	<i>Depth to Water (ft)</i>	<i>Drawdown from Initial Water Level (ft)</i>	<i>pH</i>	<i>Temperature ° C</i>	<i>Conductivity (S/m)</i>	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
10:40	75	14.80	0.13	7.02	13.17	0.658	-98	2.04	1.08
10:45	75	14.84	0.17	7.04	13.70	0.661	-101	2.00	1.63
10:50	75	14.88	0.21	7.04	14.24	0.653	-103	1.97	0.61
10:55	75	14.91	0.24	7.03	14.42	0.654	-104	1.92	1.13
11:00	75	14.94	0.27	7.03	14.57	0.653	-105	1.90	1.94
11:05	75	14.97	0.30	6.98	14.74	0.649	-103	1.80	1.57
11:10	75	14.99	0.32	6.95	15.18	0.650	-104	1.77	1.66
11:15	75	15.03	0.36	6.94	15.23	0.649	-104	1.77	1.05
11:20	75	15.05	0.38	6.93	15.35	0.647	-102	1.75	1.38
11:25	75	15.07	0.40	6.92	15.41	0.648	-100	1.72	1.22
11:30	Sample Time								
Sample ID:	<u>GW-035029-022813-SAG-010</u>								
	VOCs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 27, 2013
Personnel: Steven Grace

Monitoring Well Data:

Well No.: MW-18R
Measurement Point: TOC
Constructed Well Depth (ft): 16.00
Measured Well Depth (ft): 19.35
Total purged Volume (gal): 0.8

Screen Length (ft): 10
Depth to Pump Intake (ft)⁽¹⁾: 19
Well Diameter, D (in): 2
Well Screen Volume, V_s (gal): 1.6
Initial Depth to Water (ft): 5.27

<i>Time</i>	<i>Pumping Rate (mL/min)</i>	<i>Depth to Water (ft)</i>	<i>Drawdown from Initial Water Level (ft)</i>	<i>pH</i>	<i>Temperature ° C</i>	<i>Conductivity (S/m)</i>	<i>ORP (mV)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
<i>Precision Required:</i>				<i>±0.1 Units</i>	<i>±3 %</i>	<i>±0.005 or 0.01 ⁽³⁾</i>	<i>±10 mV</i>	<i>±10 %</i>	<i>±10 %</i>
13:00	75	5.40	0.13	6.02	20.73	0.139	106	7.76	10.6
13:05	75	5.44	0.17	5.98	17.41	0.145	60	6.67	9.52
13:10	75	5.45	0.18	5.95	15.18	0.150	114	6.00	6.95
13:15	75	5.45	0.18	5.95	14.76	0.151	113	5.46	8.00
13:20	75	5.45	0.18	5.94	14.53	0.150	112	5.10	7.57
13:25	75	5.45	0.18	5.92	14.00	0.153	110	5.03	8.11
13:30	75	5.45	0.18	5.92	13.80	0.154	108	5.01	6.91
13:35	75	5.45	0.18	5.92	13.61	0.155	106	4.97	7.38
13:40	Sample Time								
Sample ID:	<u>GW-035029-022713-SAG-009</u>								
	VOCs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Arivec
Ref. No.: 35029

Date: February 27, 2013
Personnel: Alex Yarbough

Monitoring Well Data:

Well No.: AW-2
Measurement Point: TOC
Constructed Well Depth (ft): 66.50
Measured Well Depth (ft): 70.50
Total purged Volume (gal): 0.7

Screen Length (ft): -
Depth to Pump Intake (ft)⁽¹⁾: 65
Well Diameter, D (in): 4
Well Screen Volume, V_s (gal): -
Initial Depth to Water (ft): 22.52

Time	Pumping Rate	Depth to Water	Drawdown from Initial Water Level	pH	Temperature	Conductivity	ORP	DO	Turbidity
	(mL/min)	(ft)	(ft)		° C	(S/m)	(mV)	(mg/L)	(NTU)
Precision Required:				±0.1 Units	±3 %	±0.005 or 0.01 ⁽³⁾	±10 mV	±10 %	±10 %
14:10	75	22.57	0.05	6.52	15.35	0.319	-42	0.00	1.20
14:15	75	22.58	0.06	6.77	15.61	0.318	-63	0.00	0.00
14:20	75	22.58	0.06	6.83	15.72	0.314	-72	0.00	0.00
14:25	75	22.58	0.06	6.85	15.76	0.315	-77	0.00	0.00
14:30	75	22.59	0.07	6.89	15.86	0.313	-81	0.00	0.00
14:35	75	22.59	0.07	6.88	15.91	0.312	-83	0.00	0.00
14:40	75	22.59	0.07	6.85	15.94	0.311	-87	0.00	0.00
14:45	Sample Time								
Sample ID:	<u>GW-022713-AWY-203</u>								
	TCL VOCs + 1,4 Dioxane								

Notes:

- (1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
- (2) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
- (3) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

ATTACHMENT B

DATA VALIDATION, LABORATORY REPORTS AND SAMPLE KEYS



**CONESTOGA-ROVERS
& ASSOCIATES**

9033 Meridian Way, West Chester, Ohio 45069
Telephone: (513) 942-4750 Fax: (513) 942-8585
www.CRAworld.com

MEMORANDUM

TO: Mike Reinhardt

FROM: Paul McMahon/bjw/7 *bjw*

C.C.: Terefe Mazengia

RE: **Analytical Results and Reduced Validation
Groundwater Monitoring Wells
Arivec
Douglasville, Georgia
February 2013**

REF. NO.: 035029

DATE: March 19, 2013

INTRODUCTION

The following document details a reduced validation of analytical results for groundwater samples collected at the Arivec site in February 2013. Samples were submitted to Analytical Environmental Services, Inc. (AES), in Atlanta, Georgia. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard Conestoga-Rovers & Associates (CRA) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), and matrix spikes; and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and the document entitled:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999

SAMPLE HOLDING TIME AND PRESERVATION

The sample holding time criterion for the analyses is summarized in Table 3. Sample chain of custody documents and the analytical report were used to determine sample holding times. All samples were analyzed within the required holding time.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

LABORATORY METHOD BLANK ANALYSES

Method blanks are prepared from deionized water and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

SURROGATE SPIKE RECOVERIES

In accordance with the method employed, all samples, blanks and QC samples analyzed for volatile organic compounds (VOCs) are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis. Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were acceptable.

LABORATORY CONTROL SAMPLE (LCS) ANALYSES

An LCS is prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. For this study, LCS were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

To evaluate the effects of sample matrices on the measurement procedures and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The relative percent difference (RPD) between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

MS/MSD analyses were performed as specified in Table 1. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

FIELD QA/QC SAMPLES

The field QA/QC consisted of one trip blank sample and one field duplicate sample set.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, one trip blank was submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the practical quantitation limit (PQL), the evaluation criterion is one times the PQL value.

All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

ANALYTE REPORTING

The laboratory reported detected results down to the laboratory's PQL for each analyte. Non-detect results were presented as non-detect at the PQL in Table 2.

CONCLUSION

Based on this assessment of the information provided, the data produced by AES were found to exhibit acceptable levels of accuracy and precision and may be used without qualification.

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

<i>Sample ID</i>	<i>Location ID</i>	<i>Collection Date (mm/dd/yyyy)</i>	<i>Collection Time (hr:min)</i>	<i>Analysis/Parameters VOCs</i>	<i>Comments</i>
GW-035029-022513-SAG-001	MW-9R	2/25/2013	14:50	X	
GW-035029-022613-SAG-002	MW-15B	2/26/2013	9:25	X	
GW-035029-022613-SAG-003	MW-CRA-9S	2/26/2013	10:30	X	
GW-035029-022613-SAG-004	MW-CRA-7S	2/26/2013	13:45	X	
GW-035029-022613-SAG-005	MW-CRA-7S	2/26/2013	13:50	X	Duplicate of GW-035029-022613-SAG-004
GW-035029-022613-SAG-006	MW-CRA-5B	2/26/2013	15:20	X	
GW-035029-022713-SAG-007	MW-CRA-2S	2/27/2013	9:50	X	
GW-035029-022713-SAG-008	MW-CRA-3B	2/27/2013	11:30	X	MS/MSD
GW-035029-022713-SAG-009	MW-18R	2/27/2013	13:40	X	
GW-035029-022813-SAG-010	MW-17B	2/28/2013	11:30	X	
GW-022513-DJB-101	MW-9B	2/25/2013	15:35	X	
GW-022613-DJB-102	MW-15R	2/26/2013	9:30	X	
GW-022613-DJB-103	MW-2B	2/26/2013	11:00	X	
GW-022613-DJB-104	MW-CRA-8B	2/26/2013	13:45	X	
GW-022613-DJB-105	MW-CRA-5S	2/26/2013	15:30	X	
GW-022713-AWY-201	MW-CRA-6S	2/27/2013	10:25	X	
GW-022713-AWY-202	MW-CRA-1S	2/27/2013	11:20	X	
GW-022713-AWY-203	AW-2	2/27/2013	14:45	X	
GW-022813-DJB-106	MW-17B	2/28/2013	12:15	X	

Notes:

VOCs Volatile organic compounds.

MS Matrix spike.

MSD Matrix spike duplicate.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

	<i>Location Name:</i>	<i>AW-2</i>	<i>MW-CRA-1S</i>	<i>MW-2B</i>	<i>MW-CRA-2S</i>
	<i>Sample Name:</i>	GW-022713-AWY-203	GW-022713-AWY-202	GW-022613-DJB-103	GW-035029-022713-SAG-007
	<i>Sample Date:</i>	2/27/2013	2/27/2013	2/26/2013	2/27/2013
	<i>Sample Type:</i>				
<i>Parameters</i>	<i>Units</i>				
<i>Volatile Organic Compounds</i>					
1,1,1-Trichloroethane	µg/L	50	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	88	5.0 U	140	5.0 U
1,1-Dichloroethene	µg/L	71	5.0 U	20	5.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	7.4	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	µg/L	150 U	150 U	380	150 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	50 U	50 U	50 U	50 U
Benzene	µg/L	38	5.0 U	30	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	10 U	10 U	11	10 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

<i>Location Name:</i>		<i>AW-2</i>	<i>MW-CRA-1S</i>	<i>MW-2B</i>	<i>MW-CRA-2S</i>
<i>Sample Name:</i>		GW-022713-AWY-203	GW-022713-AWY-202	GW-022613-DJB-103	GW-035029-022713-SAG-007
<i>Sample Date:</i>		2/27/2013	2/27/2013	2/26/2013	2/27/2013
<i>Sample Type:</i>					
<i>Parameters</i>	<i>Units</i>				
<i>Volatile Organic Compounds (Continued)</i>					
cis-1,2-Dichloroethene	µg/L	7600	5.0 U	3000	45
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	µg/L	16	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	23	5.0 U	5.0 U	5.0 U
Isopropyl benzene	µg/L	9.4	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	µg/L	12	5.0 U	5.0 U	14
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	6.5	5.0 U	12
Toluene	µg/L	340	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	29	5.0 U	11	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	19
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	200	10 U	10 U	10 U
Vinyl chloride	µg/L	790	2.0 U	1300	2.0 U
Xylenes (total)	µg/L	110	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

<i>Parameters</i>	<i>Location Name:</i> MW-CRA-3B MW-CRA-5B MW-CRA-5S MW-CRA-6S <i>Sample Name:</i> GW-035029-022713-SAG-008 GW-035029-022613-SAG-006 GW-022613-DJB-105 GW-022713-AWY-201 <i>Sample Date:</i> 2/27/2013 2/26/2013 2/26/2013 2/27/2013 <i>Sample Type:</i>				
	<i>Units</i>				
<i>Volatile Organic Compounds</i>					
1,1,1-Trichloroethane	µg/L	5.0 U	9.0	5.0 U	260
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	13	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	470	44	48
1,1-Dichloroethene	µg/L	5.0 U	220	31	59
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	12	5.0 U	12
1,2-Dichloroethane	µg/L	5.0 U	14	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	µg/L	150 U	1000	150 U	150 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	50 U	50 U	50 U	50 U
Benzene	µg/L	5.0 U	75	5.0 U	710
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	38	5.0 U	5.0 U
Chloroethane	µg/L	10 U	35	10 U	10 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	10 U	10 U	10 U	10 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013**

<i>Parameters</i>	<i>Location Name:</i> MW-CRA-3B MW-CRA-5B MW-CRA-5S MW-CRA-6S <i>Sample Name:</i> GW-035029-022713-SAG-008 GW-035029-022613-SAG-006 GW-022613-DJB-105 GW-022713-AWY-201 <i>Sample Date:</i> 2/27/2013 2/26/2013 2/26/2013 2/27/2013 <i>Sample Type:</i>				
	<i>Units</i>				
<i>Volatile Organic Compounds (Continued)</i>					
cis-1,2-Dichloroethene	µg/L	5.0 U	14000	1500	49000
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	µg/L	5.0 U	8.9	5.0 U	120
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	20	10 U	10 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	110
Isopropyl benzene	µg/L	5.0 U	9.1	5.0 U	12
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	µg/L	5.0 U	6.6	5.0 U	110
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	40	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	55	8.2	620
Toluene	µg/L	5.0 U	41	5.0 U	1500
trans-1,2-Dichloroethene	µg/L	5.0 U	40	5.0 U	900
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	400	73	490
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U	5.0 U	1700
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	710	59	10 U
Vinyl chloride	µg/L	2.0 U	950	68	49
Xylenes (total)	µg/L	5.0 U	52	5.0 U	580

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013**

<i>Parameters</i>	<i>Location Name:</i> MW-CRA-7S MW-CRA-7S MW-CRA-8B MW-9B <i>Sample Name:</i> GW-035029-022613-SAG-004 GW-035029-022613-SAG-005 GW-022613-DJB-104 GW-022513-DJB-101 <i>Sample Date:</i> 2/26/2013 2/26/2013 2/26/2013 2/25/2013 <i>Sample Type:</i> Duplicate				
	<i>Units</i>				
<i>Volatile Organic Compounds</i>					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	9.4
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	7.7
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	µg/L	150 U	150 U	150 U	150 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	50 U	50 U	50 U	50 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	10 U	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

	<i>Location Name:</i>	<i>MW-CRA-7S</i>	<i>MW-CRA-7S</i>	<i>MW-CRA-8B</i>	<i>MW-9B</i>
	<i>Sample Name:</i>	<i>GW-035029-022613-SAG-004</i>	<i>GW-035029-022613-SAG-005</i>	<i>GW-022613-DJB-104</i>	<i>GW-022513-DJB-101</i>
	<i>Sample Date:</i>	<i>2/26/2013</i>	<i>2/26/2013</i>	<i>2/26/2013</i>	<i>2/25/2013</i>
	<i>Sample Type:</i>		<i>Duplicate</i>		
<i>Parameters</i>	<i>Units</i>				
<i>Volatile Organic Compounds (Continued)</i>					
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	160
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	5.0 U	6.8
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	2.0 U	2.0 U	2.0 U	2.9
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

<i>Location Name:</i>		<i>MW-9R</i>	<i>MW-CRA-9S</i>	<i>MW-15B</i>	<i>MW-15R</i>
<i>Sample Name:</i>		GW-035029-022513-SAG-001	GW-035029-022613-SAG-003	GW-035029-022613-SAG-002	GW-022613-DJB-102
<i>Sample Date:</i>		2/25/2013	2/26/2013	2/26/2013	2/26/2013
<i>Sample Type:</i>					
<i>Parameters</i>	<i>Units</i>				
<i>Volatile Organic Compounds</i>					
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	36	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	15	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dioxane	µg/L	150 U	150 U	150 U	150 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	50 U	50 U	50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U
Acetone	µg/L	50 U	50 U	50 U	50 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	10 U	10 U	10 U	10 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	10 U	10 U	10 U	10 U

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013**

<i>Location Name:</i>					
<i>Sample Name:</i>					
<i>Sample Date:</i>					
<i>Sample Type:</i>					
<i>Parameters</i>	<i>Units</i>	<i>MW-9R</i>	<i>MW-CRA-9S</i>	<i>MW-15B</i>	<i>MW-15R</i>
<i>Volatile Organic Compounds (Continued)</i>					
cis-1,2-Dichloroethene	µg/L	140	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U	10 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.7	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	5.0 U	6.3	5.0 U
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U	10 U
Vinyl chloride	µg/L	11	2.0 U	2.0 U	2.0 U
Xylenes (total)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

<i>Location Name:</i>		<i>MW-17B</i>	<i>MW-17B</i>	<i>MW-18R</i>
<i>Sample Name:</i>		GW-022813-DJB-106	GW-035029-022813-SAG-010	GW-035029-022713-SAG-009
<i>Sample Date:</i>		2/28/2013	2/28/2013	2/27/2013
<i>Sample Type:</i>				
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
1,1,1-Trichloroethane	µg/L	5.0 U	190	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	160	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	1100	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	260	5.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	11	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	230	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U
1,4-Dioxane	µg/L	150 U	150 U	150 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	50 U	50 U
2-Hexanone	µg/L	10 U	11	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U
Acetone	µg/L	50 U	200	50 U
Benzene	µg/L	5.0 U	870	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	6.3	5.0 U
Chloroethane	µg/L	10 U	410	10 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	10 U	10 U	10 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

<i>Location Name:</i>				
	<i>Sample Name:</i>	<i>MW-17B</i>	<i>MW-17B</i>	<i>MW-18R</i>
	<i>Sample Date:</i>	<i>GW-022813-DJB-106</i>	<i>GW-035029-022813-SAG-010</i>	<i>GW-035029-022713-SAG-009</i>
	<i>Sample Type:</i>	<i>2/28/2013</i>	<i>2/28/2013</i>	<i>2/27/2013</i>
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds (Continued)</i>				
cis-1,2-Dichloroethene	µg/L	59	26000	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U
Cyclohexane	µg/L	5.0 U	89	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U
Ethylbenzene	µg/L	5.0 U	350	5.0 U
Isopropyl benzene	µg/L	5.0 U	20	5.0 U
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	µg/L	5.0 U	69	5.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	42	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	9.6	5.0 U
Toluene	µg/L	5.0 U	6700	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	220	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	31	20	5.0 U
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	23	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	35	10 U
Vinyl chloride	µg/L	2.0 U	10000	2.0 U
Xylenes (total)	µg/L	5.0 U	1700	5.0 U

Note:

U - Not detected at the associated reporting limit

TABLE 3
SAMPLE HOLDING TIME CRITERIA AND ANALYTICAL METHOD SUMMARY
GROUNDWATER MONITORING WELLS
ARIVEC
DOUGLASVILLE, GEORGIA
FEBRUARY 2013

<i>Parameter</i>	<i>Matrix</i>	<i>Analytical Method</i>	<i>Collection to Analysis</i>
VOCs	Water	SW-846 8260 ⁽¹⁾	14 Days

Notes:

- ⁽¹⁾ Referenced from "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1994 with all subsequent revisions.
- VOCs Volatile organic compounds.
- USEPA United States Environmental Protection Agency.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 12, 2013

Mike Reinhardt
Conestoga, Rovers, & Associates, Inc.
3075 Breckinridge Blvd., Suite 470
Duluth GA 30096

TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Arivec

Dear Mike Reinhardt:

Order No: 1303049

Analytical Environmental Services, Inc. received 20 samples on 2/28/2013 3:30:00 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' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Chantelle Kanhai
Project Manager



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

Address:

Phone:

1303049

COC NO: 33780

PAGE 1 OF 2

(See Reverse Side for Instructions)

Project No/Phase/Task Code: 35029-02		Laboratory Name: AES		Lab Location: Atlanta, GA		SSOW ID: 35029-01	
Project Name: Arivec		Lab Contact: Chantelle Kanhai		Lab Quote No:		Cooler No: 1	
Project Location: Douglasville, GA		Container Quantity & Preservation		Analysis Requested (See Back of COC for Definitions)		Carrier:	
Chemistry Contact: Paul Mc Mahon		Sample Type		Unpreserved		Airbill No:	
Sampler(s): David Brytosh, Steve Green		Matrix Code		Grab (G) or Comp (C)		Date Shipped: 2/28/13	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		COMMENTS/SPECIAL INSTRUCTIONS	
1	GW-035029-022513-SAG-001	2/25	14:50	WG-G	Y	MS/MSD Request	
2	GW-035029-022613-SAG-002	2/26/13	9:23	↓	Y		
3	GW-035029-022613-SAG-003	2/26/13	10:30	↓	Y		
4	GW-035029-022613-SAG-004	2/26/13	13:45	↓	Y		
5	GW-035029-022613-SAG-005	2/26/13	13:50	WG-G	Y		
6	GW-035029-022613-SAG-006	2/26/13	15:20	↓	Y		
7	GW-035029-022713-SAG-007	2/27/13	9:50	↓	Y		
8	GW-035029-022713-SAG-008	2/27/13	11:30	↓	Y		
9	GW-035029-022713-SAG-009	2/27/13	14:30	WG-G	Y		
10	GW-035029-022813-SAG-010	2/28/13	11:30	↓	Y		
11	GW-022713-AWY-201	2/27/13	10:25	↓	Y		
12	GW-022713-AWY-202	2/27/13	11:20	↓	Y		
13	GW-022713-AWY-203	2/27/13	14:45	WG-G	Y		
14							
15							
TAT Required in business days (use separate COCs for different TATs):		Total Number of Containers: 30		Notes/ Special Requirements:			
☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other:		All Samples in Cooler must be on COC					
RELINQUISHED BY: David Brytosh		RECEIVED BY: [Signature]		COMPANY: CUBA		DATE: 2/28/13	
DATE: 2/28/13		TIME: 15:30		COMPANY: CUBA		DATE: 2/28/13	
3		3		3		3	



CONESTOGA-ROVERS
& ASSOCIATES

CHAIN OF CUSTODY RECORD

Address: Duluth, GA

Phone: 770 441 0027 Fax: 770 441 2050

COC NO: 33795

PAGE 2 OF 2

(See Reverse Side for Instructions)

Project No/Phase/Task Code: <u>35029-02</u>		Laboratory Name: <u>AES</u>		Lab Location: <u>Atlanta, GA</u>		SSOW ID: <u>35029-01</u>	
Project Name: <u>Arivec</u>		Lab Contact: <u>Chantelle Keanhai</u>		Lab Quote No:		Cooler No: <u>1</u>	
Project Location: <u>Douglasville, GA</u>		CONTAINER QUANTITY & PRESERVATION		ANALYSIS REQUESTED (See Back of COC for Definitions)		Carrier: <u>-</u>	
Chemistry Contact: <u>Paul McMahon</u>		SAMPLE TYPE		Total Containers/Sample		Airbill No: <u>-</u>	
Sampler(s): <u>David Boytownski, Steve Grace</u>		Grab (G) or Comp (C)		Other:		Date Shipped: <u>2/28/13</u>	
SAMPLE IDENTIFICATION (Containers for each sample may be combined on one line)		DATE (mm/dd/yyyy)		TIME (hh:mm)		MS/MSD Request	
1 <u>GW-022513-DJB-101</u>		<u>2/25/13</u>		<u>15:30</u>		<u>2</u>	
2 <u>GW-022613-DJB-102</u>		<u>2/26/13</u>		<u>9:30</u>		<u>2</u>	
3 <u>GW-022613-DJB-103</u>		<u>2/26/13</u>		<u>11:00</u>		<u>2</u>	
4 <u>GW-022613-DJB-104</u>		<u>2/26/13</u>		<u>13:45</u>		<u>2</u>	
5 <u>GW-022613-DJB-105</u>		<u>2/26/13</u>		<u>15:30</u>		<u>2</u>	
6 <u>GW-022813-DJB-106</u>		<u>2/29/13</u>		<u>12:15</u>		<u>2</u>	
7 <u>Flip Blank</u>						<u>2</u>	
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							
71							
72							
73							
74							
75							
76							
77							
78							
79							
80							
81							
82							
83							
84							
85							
86							
87							
88							
89							
90							
91							
92							
93							
94							
95							
96							
97							
98							
99							
100							
101							
102							
103							
104							
105							
106							
107							
108							
109							
110							
111							
112							
113							
114							
115							
116							
117							
118							
119							
120							
121							
122							
123							
124							
125							
126							
127							
128							
129							
130							
131							
132							
133							
134							
135							
136							
137							
138							
139							
140							
141							
142							
143							
144							
145							
146							
147							
148							
149							
150							
151							
152							
153							
154							
155							
156							
157							
158							
159							
160							
161							
162							
163							
164							
165							
166							
167							
168							
169							
170							
171							
172							
173							
174							
175							
176							
177							
178							
179							
180							
181							
182							
183							
184							
185							
186							
187							
188							
189							
190							
191							
192							
193							
194							
195							
196							
197							
198							
199							
200							
201							
202							
203							
204							
205							
206							
207							
208							
209							
210							
211							
212							
213							
214							
215							
216							
217							
218							
219							
220							
221							
222							
223							
224							
225							
226							
227							
228							
229							
230							
231							
232							
233							
234							
235							
236							
237							
238							
239							
240							
241							
242							
243							
244							
245							
246							
247							
248							
249							
250							
251							
252							
253							
254							
255							
256							
257							
258							
259							
260							
261							
262							
263							
264							
265							
266							
267							
268							
269							
270							
271							
272							
273							
274							
275							
276							
277							
278							
279							
280							
281							
282							
283							
284							
285							
286							
287							
288							
289							
290							
291							
292							
293							
294							
295							
296							
297							
298							
299							
300							
301							
302							
303							
304							
305							
306							
307							
308							
309							
310							
311							
312							
313							
314							
315							

Analytical Environmental Services, Inc
Date: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-001

Client Sample ID: GW-035029-022513-SAG-001
Collection Date: 2/25/2013 2:50:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)			
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,1-Dichloroethane	36	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,1-Dichloroethene	15	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 14:46	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 14:46	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 14:46	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 14:46	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 14:46	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 14:46	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 14:46	GK
cis-1,2-Dichloroethene	140	5.0		ug/L	173080	1	03/04/2013 14:46	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 14:46	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 14:46	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-001

Client Sample ID: GW-035029-022513-SAG-001
Collection Date: 2/25/2013 2:50:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	5.7	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Vinyl chloride	11	2.0		ug/L	173080	1	03/04/2013 14:46	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 14:46	GK
Surr: 4-Bromofluorobenzene	99.8	64.6-123		%REC	173080	1	03/04/2013 14:46	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	173080	1	03/04/2013 14:46	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	1	03/04/2013 14:46	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-002

Client Sample ID: GW-035029-022613-SAG-002
Collection Date: 2/26/2013 9:25:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 15:16	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 15:16	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 15:16	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 15:16	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 15:16	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 15:16	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 15:16	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 15:16	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 15:16	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-002

Client Sample ID: GW-035029-022613-SAG-002
Collection Date: 2/26/2013 9:25:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Trichloroethene	6.3	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/04/2013 15:16	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 15:16	GK
Surr: 4-Bromofluorobenzene	98.4	64.6-123		%REC	173080	1	03/04/2013 15:16	GK
Surr: Dibromofluoromethane	100	76.6-133		%REC	173080	1	03/04/2013 15:16	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	1	03/04/2013 15:16	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-003

Client Sample ID: GW-035029-022613-SAG-003
Collection Date: 2/26/2013 10:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 15:46	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 15:46	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 15:46	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 15:46	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 15:46	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 15:46	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 15:46	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 15:46	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 15:46	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-003

Client Sample ID: GW-035029-022613-SAG-003
Collection Date: 2/26/2013 10:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/04/2013 15:46	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 15:46	GK
Surr: 4-Bromofluorobenzene	98.2	64.6-123		%REC	173080	1	03/04/2013 15:46	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	1	03/04/2013 15:46	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	1	03/04/2013 15:46	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-004

Client Sample ID: GW-035029-022613-SAG-004
Collection Date: 2/26/2013 1:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 16:16	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 16:16	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 16:16	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 16:16	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 16:16	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 16:16	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 16:16	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 16:16	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 16:16	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-004

Client Sample ID: GW-035029-022613-SAG-004
Collection Date: 2/26/2013 1:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/04/2013 16:16	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 16:16	GK
Surr: 4-Bromofluorobenzene	96	64.6-123		%REC	173080	1	03/04/2013 16:16	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	1	03/04/2013 16:16	GK
Surr: Toluene-d8	105	77.8-120		%REC	173080	1	03/04/2013 16:16	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-005

Client Sample ID: GW-035029-022613-SAG-005
Collection Date: 2/26/2013 1:50:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 16:46	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 16:46	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 16:46	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 16:46	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 16:46	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 16:46	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 16:46	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 16:46	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 16:46	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-005

Client Sample ID: GW-035029-022613-SAG-005
Collection Date: 2/26/2013 1:50:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/04/2013 16:46	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 16:46	GK
Surr: 4-Bromofluorobenzene	97.7	64.6-123		%REC	173080	1	03/04/2013 16:46	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	1	03/04/2013 16:46	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	1	03/04/2013 16:46	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-006

Client Sample ID: GW-035029-022613-SAG-006
Collection Date: 2/26/2013 3:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	9.0	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,1,2-Trichloroethane	13	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,1-Dichloroethane	470	400		ug/L	173080	100	03/05/2013 01:43	GK
1,1-Dichloroethene	220	200		ug/L	173080	100	03/05/2013 01:43	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,2-Dichlorobenzene	12	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,2-Dichloroethane	14	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
1,4-Dioxane	1000	150		ug/L	173080	1	03/04/2013 17:16	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 17:16	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 17:16	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 17:16	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 17:16	GK
Benzene	75	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Chlorobenzene	38	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Chloroethane	35	10		ug/L	173080	1	03/04/2013 17:16	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 17:16	GK
cis-1,2-Dichloroethene	14000	500		ug/L	173080	100	03/05/2013 01:43	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Cyclohexane	8.9	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Dichlorodifluoromethane	20	10		ug/L	173080	1	03/04/2013 17:16	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Freon-113	710	700		ug/L	173080	100	03/05/2013 01:43	GK
Isopropylbenzene	9.1	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Methylcyclohexane	6.6	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Methylene chloride	40	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-006

Client Sample ID: GW-035029-022613-SAG-006
Collection Date: 2/26/2013 3:20:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	55	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Toluene	41	5.0		ug/L	173080	1	03/04/2013 17:16	GK
trans-1,2-Dichloroethene	40	5.0		ug/L	173080	1	03/04/2013 17:16	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Trichloroethene	400	400		ug/L	173080	100	03/05/2013 01:43	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Vinyl chloride	950	200		ug/L	173080	100	03/05/2013 01:43	GK
Xylenes, Total	52	5.0		ug/L	173080	1	03/04/2013 17:16	GK
Surr: 4-Bromofluorobenzene	97.8	64.6-123		%REC	173080	100	03/05/2013 01:43	GK
Surr: 4-Bromofluorobenzene	98.6	64.6-123		%REC	173080	1	03/04/2013 17:16	GK
Surr: Dibromofluoromethane	103	76.6-133		%REC	173080	100	03/05/2013 01:43	GK
Surr: Dibromofluoromethane	105	76.6-133		%REC	173080	1	03/04/2013 17:16	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	1	03/04/2013 17:16	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	100	03/05/2013 01:43	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-007

Client Sample ID: GW-035029-022713-SAG-007
Collection Date: 2/27/2013 9:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/05/2013 02:13	GK
2-Butanone	BRL	50		ug/L	173080	1	03/05/2013 02:13	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/05/2013 02:13	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/05/2013 02:13	GK
Acetone	BRL	50		ug/L	173080	1	03/05/2013 02:13	GK
Benzene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Chloroethane	BRL	10		ug/L	173080	1	03/05/2013 02:13	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Chloromethane	BRL	10		ug/L	173080	1	03/05/2013 02:13	GK
cis-1,2-Dichloroethene	45	5.0		ug/L	173080	1	03/05/2013 02:13	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/05/2013 02:13	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Freon-113	BRL	10		ug/L	173080	1	03/05/2013 02:13	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Methylcyclohexane	14	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Styrene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-007

Client Sample ID: GW-035029-022713-SAG-007
Collection Date: 2/27/2013 9:50:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	12	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Toluene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Trichloroethene	19	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/05/2013 02:13	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/05/2013 02:13	GK
Surr: 4-Bromofluorobenzene	98.8	64.6-123		%REC	173080	1	03/05/2013 02:13	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	173080	1	03/05/2013 02:13	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	1	03/05/2013 02:13	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-008

Client Sample ID: GW-035029-022713-SAG-008
Collection Date: 2/27/2013 11:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 12:47	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 12:47	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 12:47	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 12:47	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 12:47	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 12:47	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 12:47	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 12:47	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 12:47	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-008

Client Sample ID: GW-035029-022713-SAG-008
Collection Date: 2/27/2013 11:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/04/2013 12:47	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 12:47	GK
Surr: 4-Bromofluorobenzene	99.5	64.6-123		%REC	173080	1	03/04/2013 12:47	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	173080	1	03/04/2013 12:47	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	1	03/04/2013 12:47	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-009

Client Sample ID: GW-035029-022713-SAG-009
Collection Date: 2/27/2013 2:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 20:15	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 20:15	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 20:15	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 20:15	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 20:15	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 20:15	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 20:15	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 20:15	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 20:15	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-009

Client Sample ID: GW-035029-022713-SAG-009
Collection Date: 2/27/2013 2:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/04/2013 20:15	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 20:15	GK
Surr: 4-Bromofluorobenzene	97.5	64.6-123		%REC	173080	1	03/04/2013 20:15	GK
Surr: Dibromofluoromethane	100	76.6-133		%REC	173080	1	03/04/2013 20:15	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	1	03/04/2013 20:15	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-010

Client Sample ID: GW-035029-022813-SAG-010
Collection Date: 2/28/2013 11:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	190	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,1,2-Trichloroethane	160	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,1-Dichloroethane	1100	250		ug/L	173080	50	03/05/2013 12:34	GK
1,1-Dichloroethene	260	250		ug/L	173080	50	03/05/2013 12:34	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,2-Dichlorobenzene	11	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,2-Dichloroethane	230	200		ug/L	173080	50	03/05/2013 12:34	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 20:45	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 20:45	GK
2-Hexanone	11	10		ug/L	173080	1	03/04/2013 20:45	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 20:45	GK
Acetone	200	50		ug/L	173080	1	03/04/2013 20:45	GK
Benzene	870	250		ug/L	173080	50	03/05/2013 12:34	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Chlorobenzene	6.3	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Chloroethane	410	400		ug/L	173080	50	03/05/2013 12:34	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 20:45	GK
cis-1,2-Dichloroethene	26000	2500		ug/L	173080	500	03/05/2013 12:04	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Cyclohexane	89	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 20:45	GK
Ethylbenzene	350	250		ug/L	173080	50	03/05/2013 12:34	GK
Freon-113	35	10		ug/L	173080	1	03/04/2013 20:45	GK
Isopropylbenzene	20	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Methylcyclohexane	69	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Methylene chloride	42	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-010

Client Sample ID: GW-035029-022813-SAG-010
Collection Date: 2/28/2013 11:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	9.6	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Toluene	6700	250		ug/L	173080	50	03/05/2013 12:34	GK
trans-1,2-Dichloroethene	220	200		ug/L	173080	50	03/05/2013 12:34	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Trichloroethene	20	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Trichlorofluoromethane	23	5.0		ug/L	173080	1	03/04/2013 20:45	GK
Vinyl chloride	10000	1000		ug/L	173080	500	03/05/2013 12:04	GK
Xylenes, Total	1700	250		ug/L	173080	50	03/05/2013 12:34	GK
Surr: 4-Bromofluorobenzene	97.8	64.6-123		%REC	173080	500	03/05/2013 12:04	GK
Surr: 4-Bromofluorobenzene	98.7	64.6-123		%REC	173080	50	03/05/2013 12:34	GK
Surr: 4-Bromofluorobenzene	99.7	64.6-123		%REC	173080	1	03/04/2013 20:45	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	500	03/05/2013 12:04	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	173080	50	03/05/2013 12:34	GK
Surr: Dibromofluoromethane	105	76.6-133		%REC	173080	1	03/04/2013 20:45	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	500	03/05/2013 12:04	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	50	03/05/2013 12:34	GK
Surr: Toluene-d8	105	77.8-120		%REC	173080	1	03/04/2013 20:45	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-011

Client Sample ID: GW-022713-AWY-201
Collection Date: 2/27/2013 10:25:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	260	100		ug/L	173080	20	03/05/2013 14:04	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,1-Dichloroethane	48	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,1-Dichloroethene	59	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,2-Dichlorobenzene	12	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 21:15	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 21:15	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 21:15	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 21:15	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 21:15	GK
Benzene	710	100		ug/L	173080	20	03/05/2013 14:04	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 21:15	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 21:15	GK
cis-1,2-Dichloroethene	49000	2500		ug/L	173080	500	03/05/2013 13:34	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Cyclohexane	120	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 21:15	GK
Ethylbenzene	110	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 21:15	GK
Isopropylbenzene	12	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Methylcyclohexane	110	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-011

Client Sample ID: GW-022713-AWY-201
Collection Date: 2/27/2013 10:25:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	620	100		ug/L	173080	20	03/05/2013 14:04	GK
Toluene	1500	100		ug/L	173080	20	03/05/2013 14:04	GK
trans-1,2-Dichloroethene	900	100		ug/L	173080	20	03/05/2013 14:04	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 21:15	GK
Trichloroethene	490	100		ug/L	173080	20	03/05/2013 14:04	GK
Trichlorofluoromethane	1700	100		ug/L	173080	20	03/05/2013 14:04	GK
Vinyl chloride	49	2.0		ug/L	173080	1	03/04/2013 21:15	GK
Xylenes, Total	580	100		ug/L	173080	20	03/05/2013 14:04	GK
Surr: 4-Bromofluorobenzene	96.9	64.6-123		%REC	173080	500	03/05/2013 13:34	GK
Surr: 4-Bromofluorobenzene	98.5	64.6-123		%REC	173080	1	03/04/2013 21:15	GK
Surr: 4-Bromofluorobenzene	96.3	64.6-123		%REC	173080	20	03/05/2013 14:04	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	20	03/05/2013 14:04	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	500	03/05/2013 13:34	GK
Surr: Dibromofluoromethane	106	76.6-133		%REC	173080	1	03/04/2013 21:15	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	20	03/05/2013 14:04	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	500	03/05/2013 13:34	GK
Surr: Toluene-d8	105	77.8-120		%REC	173080	1	03/04/2013 21:15	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-012

Client Sample ID: GW-022713-AWY-202
Collection Date: 2/27/2013 11:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/05/2013 15:34	GK
2-Butanone	BRL	50		ug/L	173080	1	03/05/2013 15:34	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/05/2013 15:34	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/05/2013 15:34	GK
Acetone	BRL	50		ug/L	173080	1	03/05/2013 15:34	GK
Benzene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Chloroethane	BRL	10		ug/L	173080	1	03/05/2013 15:34	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Chloromethane	BRL	10		ug/L	173080	1	03/05/2013 15:34	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/05/2013 15:34	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Freon-113	BRL	10		ug/L	173080	1	03/05/2013 15:34	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Methyleyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Styrene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-012

Client Sample ID: GW-022713-AWY-202
Collection Date: 2/27/2013 11:20:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	6.5	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Toluene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/05/2013 15:34	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/05/2013 15:34	GK
Surr: 4-Bromofluorobenzene	96.2	64.6-123		%REC	173080	1	03/05/2013 15:34	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	1	03/05/2013 15:34	GK
Surr: Toluene-d8	105	77.8-120		%REC	173080	1	03/05/2013 15:34	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-013

Client Sample ID: GW-022713-AWY-203
Collection Date: 2/27/2013 2:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	50	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,1-Dichloroethane	88	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,1-Dichloroethene	71	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 22:14	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 22:14	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 22:14	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 22:14	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 22:14	GK
Benzene	38	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 22:14	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 22:14	GK
cis-1,2-Dichloroethene	7600	250		ug/L	173080	50	03/05/2013 13:04	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Cyclohexane	16	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 22:14	GK
Ethylbenzene	23	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Freon-113	200	10		ug/L	173080	1	03/04/2013 22:14	GK
Isopropylbenzene	9.4	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Methylcyclohexane	12	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-013

Client Sample ID: GW-022713-AWY-203
Collection Date: 2/27/2013 2:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Toluene	340	250		ug/L	173080	50	03/05/2013 13:04	GK
trans-1,2-Dichloroethene	29	5.0		ug/L	173080	1	03/04/2013 22:14	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Vinyl chloride	790	100		ug/L	173080	50	03/05/2013 13:04	GK
Xylenes, Total	110	5.0		ug/L	173080	1	03/04/2013 22:14	GK
Surr: 4-Bromofluorobenzene	98.3	64.6-123		%REC	173080	50	03/05/2013 13:04	GK
Surr: 4-Bromofluorobenzene	100	64.6-123		%REC	173080	1	03/04/2013 22:14	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	50	03/05/2013 13:04	GK
Surr: Dibromofluoromethane	105	76.6-133		%REC	173080	1	03/04/2013 22:14	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	50	03/05/2013 13:04	GK
Surr: Toluene-d8	105	77.8-120		%REC	173080	1	03/04/2013 22:14	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-014

Client Sample ID: GW-022513-DJB-101
Collection Date: 2/25/2013 3:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,1-Dichloroethane	9.4	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,1-Dichloroethene	7.7	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 22:44	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 22:44	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 22:44	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 22:44	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 22:44	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 22:44	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 22:44	GK
cis-1,2-Dichloroethene	160	5.0		ug/L	173080	1	03/04/2013 22:44	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 22:44	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 22:44	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-014

Client Sample ID: GW-022513-DJB-101
Collection Date: 2/25/2013 3:35:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Trichloroethene	6.8	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Vinyl chloride	2.9	2.0		ug/L	173080	1	03/04/2013 22:44	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 22:44	GK
Surr: 4-Bromofluorobenzene	98.6	64.6-123		%REC	173080	1	03/04/2013 22:44	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	173080	1	03/04/2013 22:44	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	1	03/04/2013 22:44	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-015

Client Sample ID: GW-022613-DJB-102
Collection Date: 2/26/2013 9:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 23:14	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 23:14	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 23:14	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 23:14	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 23:14	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 23:14	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 23:14	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 23:14	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 23:14	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-015

Client Sample ID: GW-022613-DJB-102
Collection Date: 2/26/2013 9:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/04/2013 23:14	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 23:14	GK
Surr: 4-Bromofluorobenzene	97.5	64.6-123		%REC	173080	1	03/04/2013 23:14	GK
Surr: Dibromofluoromethane	103	76.6-133		%REC	173080	1	03/04/2013 23:14	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	1	03/04/2013 23:14	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-016

Client Sample ID: GW-022613-DJB-103
Collection Date: 2/26/2013 11:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,1-Dichloroethane	140	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,1-Dichloroethene	20	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,2-Dichloroethane	7.4	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
1,4-Dioxane	380	150		ug/L	173080	1	03/04/2013 23:44	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 23:44	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 23:44	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 23:44	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 23:44	GK
Benzene	30	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Chloroethane	11	10		ug/L	173080	1	03/04/2013 23:44	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 23:44	GK
cis-1,2-Dichloroethene	3000	100		ug/L	173080	20	03/05/2013 14:34	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 23:44	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 23:44	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-016

Client Sample ID: GW-022613-DJB-103
Collection Date: 2/26/2013 11:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
trans-1,2-Dichloroethene	11	5.0		ug/L	173080	1	03/04/2013 23:44	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Vinyl chloride	1300	40		ug/L	173080	20	03/05/2013 14:34	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 23:44	GK
Surr: 4-Bromofluorobenzene	97.6	64.6-123		%REC	173080	1	03/04/2013 23:44	GK
Surr: 4-Bromofluorobenzene	96.9	64.6-123		%REC	173080	20	03/05/2013 14:34	GK
Surr: Dibromofluoromethane	102	76.6-133		%REC	173080	20	03/05/2013 14:34	GK
Surr: Dibromofluoromethane	103	76.6-133		%REC	173080	1	03/04/2013 23:44	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	20	03/05/2013 14:34	GK
Surr: Toluene-d8	103	77.8-120		%REC	173080	1	03/04/2013 23:44	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-017

Client Sample ID: GW-022613-DJB-104
Collection Date: 2/26/2013 1:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/05/2013 00:14	GK
2-Butanone	BRL	50		ug/L	173080	1	03/05/2013 00:14	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/05/2013 00:14	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/05/2013 00:14	GK
Acetone	BRL	50		ug/L	173080	1	03/05/2013 00:14	GK
Benzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Chloroethane	BRL	10		ug/L	173080	1	03/05/2013 00:14	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Chloromethane	BRL	10		ug/L	173080	1	03/05/2013 00:14	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/05/2013 00:14	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Freon-113	BRL	10		ug/L	173080	1	03/05/2013 00:14	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Methyleyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Styrene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-017

Client Sample ID: GW-022613-DJB-104
Collection Date: 2/26/2013 1:45:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Toluene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/05/2013 00:14	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/05/2013 00:14	GK
Surr: 4-Bromofluorobenzene	98.9	64.6-123		%REC	173080	1	03/05/2013 00:14	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	1	03/05/2013 00:14	GK
Surr: Toluene-d8	105	77.8-120		%REC	173080	1	03/05/2013 00:14	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-018

Client Sample ID: GW-022613-DJB-105
Collection Date: 2/26/2013 3:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,1-Dichloroethane	44	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,1-Dichloroethene	31	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/05/2013 00:43	GK
2-Butanone	BRL	50		ug/L	173080	1	03/05/2013 00:43	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/05/2013 00:43	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/05/2013 00:43	GK
Acetone	BRL	50		ug/L	173080	1	03/05/2013 00:43	GK
Benzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Chloroethane	BRL	10		ug/L	173080	1	03/05/2013 00:43	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Chloromethane	BRL	10		ug/L	173080	1	03/05/2013 00:43	GK
cis-1,2-Dichloroethene	1500	50		ug/L	173080	10	03/05/2013 15:04	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/05/2013 00:43	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Freon-113	59	10		ug/L	173080	1	03/05/2013 00:43	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Styrene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-018

Client Sample ID: GW-022613-DJB-105
Collection Date: 2/26/2013 3:30:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	8.2	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Toluene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Trichloroethene	73	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Vinyl chloride	68	2.0		ug/L	173080	1	03/05/2013 00:43	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/05/2013 00:43	GK
Surr: 4-Bromofluorobenzene	96.2	64.6-123		%REC	173080	1	03/05/2013 00:43	GK
Surr: 4-Bromofluorobenzene	97.6	64.6-123		%REC	173080	10	03/05/2013 15:04	GK
Surr: Dibromofluoromethane	101	76.6-133		%REC	173080	10	03/05/2013 15:04	GK
Surr: Dibromofluoromethane	105	76.6-133		%REC	173080	1	03/05/2013 00:43	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	10	03/05/2013 15:04	GK
Surr: Toluene-d8	105	77.8-120		%REC	173080	1	03/05/2013 00:43	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-019

Client Sample ID: GW-022813-DJB-106
Collection Date: 2/28/2013 12:15:00 PM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/05/2013 01:13	GK
2-Butanone	BRL	50		ug/L	173080	1	03/05/2013 01:13	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/05/2013 01:13	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/05/2013 01:13	GK
Acetone	BRL	50		ug/L	173080	1	03/05/2013 01:13	GK
Benzene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Chloroethane	BRL	10		ug/L	173080	1	03/05/2013 01:13	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Chloromethane	BRL	10		ug/L	173080	1	03/05/2013 01:13	GK
cis-1,2-Dichloroethene	59	5.0		ug/L	173080	1	03/05/2013 01:13	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/05/2013 01:13	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Freon-113	BRL	10		ug/L	173080	1	03/05/2013 01:13	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Styrene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK

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: 12-Mar-13

Client:	Conestoga, Rovers, & Associates, Inc.	Client Sample ID:	GW-022813-DJB-106
Project Name:	Arivec	Collection Date:	2/28/2013 12:15:00 PM
Lab ID:	1303049-019	Matrix:	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B					(SW5030B)			
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Toluene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Trichloroethene	31	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/05/2013 01:13	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/05/2013 01:13	GK
Surr: 4-Bromofluorobenzene	97	64.6-123		%REC	173080	1	03/05/2013 01:13	GK
Surr: Dibromofluoromethane	103	76.6-133		%REC	173080	1	03/05/2013 01:13	GK
Surr: Toluene-d8	105	77.8-120		%REC	173080	1	03/05/2013 01:13	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-020

Client Sample ID: TRIP BLANK
Collection Date: 2/28/2013
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,1,2-Trichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,1-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,1-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,2-Dibromoethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,2-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,2-Dichloroethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,2-Dichloropropane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,3-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,4-Dichlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
1,4-Dioxane	BRL	150		ug/L	173080	1	03/04/2013 14:16	GK
2-Butanone	BRL	50		ug/L	173080	1	03/04/2013 14:16	GK
2-Hexanone	BRL	10		ug/L	173080	1	03/04/2013 14:16	GK
4-Methyl-2-pentanone	BRL	10		ug/L	173080	1	03/04/2013 14:16	GK
Acetone	BRL	50		ug/L	173080	1	03/04/2013 14:16	GK
Benzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Bromodichloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Bromoform	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Bromomethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Carbon disulfide	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Carbon tetrachloride	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Chlorobenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Chloroethane	BRL	10		ug/L	173080	1	03/04/2013 14:16	GK
Chloroform	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Chloromethane	BRL	10		ug/L	173080	1	03/04/2013 14:16	GK
cis-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Cyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Dibromochloromethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Dichlorodifluoromethane	BRL	10		ug/L	173080	1	03/04/2013 14:16	GK
Ethylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Freon-113	BRL	10		ug/L	173080	1	03/04/2013 14:16	GK
Isopropylbenzene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Methyl acetate	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Methyl tert-butyl ether	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Methylcyclohexane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Methylene chloride	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Styrene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK

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: 12-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303049-020

Client Sample ID: TRIP BLANK
Collection Date: 2/28/2013
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Toluene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Trichloroethene	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Trichlorofluoromethane	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Vinyl chloride	BRL	2.0		ug/L	173080	1	03/04/2013 14:16	GK
Xylenes, Total	BRL	5.0		ug/L	173080	1	03/04/2013 14:16	GK
Surr: 4-Bromofluorobenzene	97.6	64.6-123		%REC	173080	1	03/04/2013 14:16	GK
Surr: Dibromofluoromethane	103	76.6-133		%REC	173080	1	03/04/2013 14:16	GK
Surr: Toluene-d8	104	77.8-120		%REC	173080	1	03/04/2013 14:16	GK

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.

Sample/Cooler Receipt Checklist

Client CRA Work Order Number 1303049

Checklist completed by [Signature] Date 3/1/13

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? (4°C±2)* Yes ☒ No ☐

Cooler #1 3.0 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☐ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

Client: Conestoga, Rovers, & Associates, Inc.
 Project Name: Arivec
 Workorder: 1303049

ANALYTICAL QC SUMMARY REPORT

BatchID: 173080

Sample ID: MB-173080	Client ID:					Units: ug/L	Prep Date: 03/04/2013	Run No: 239412			
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 173080	Analysis Date: 03/04/2013	Seq No: 5011797			
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	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	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: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Workorder: 1303049

ANALYTICAL QC SUMMARY REPORT**BatchID: 173080**

Sample ID: MB-173080	Client ID:					Units: ug/L	Prep Date: 03/04/2013	Run No: 239412			
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 173080	Analysis Date: 03/04/2013	Seq No: 5011797			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	48.80	0	50	0	97.6	64.6	123	0	0	0	
Surr: Dibromofluoromethane	51.22	0	50	0	102	76.6	133	0	0	0	
Surr: Toluene-d8	51.14	0	50	0	102	77.8	120	0	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: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Workorder: 1303049

ANALYTICAL QC SUMMARY REPORT**BatchID: 173080**

Sample ID: LCS-173080	Client ID:					Units: ug/L	Prep Date: 03/04/2013	Run No: 239412			
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 173080	Analysis Date: 03/04/2013	Seq No: 5011737			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	52.00	5.0	50	0	104	61.1	142	0	0	0	
Benzene	47.13	5.0	50	0	94.3	73.5	130	0	0	0	
Chlorobenzene	44.08	5.0	50	0	88.2	72.4	123	0	0	0	
Toluene	45.11	5.0	50	0	90.2	73.6	130	0	0	0	
Trichloroethene	43.55	5.0	50	0	87.1	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	50.23	0	50	0	100	64.6	123	0	0	0	
Surr: Dibromofluoromethane	51.97	0	50	0	104	76.6	133	0	0	0	
Surr: Toluene-d8	51.66	0	50	0	103	77.8	120	0	0	0	

Sample ID: 1303049-008AMS	Client ID: GW-035029-022713-SAG-008	Units: ug/L			Prep Date: 03/04/2013	Run No: 239412					
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 173080			Analysis Date: 03/04/2013	Seq No: 5011867					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	66.97	5.0	50	0	134	60	168	0	0	0	
Benzene	49.32	5.0	50	0	98.6	66.6	148	0	0	0	
Chlorobenzene	46.32	5.0	50	0	92.6	71.9	135	0	0	0	
Toluene	48.28	5.0	50	0	96.6	68	149	0	0	0	
Trichloroethene	47.01	5.0	50	0	94	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	49.19	0	50	0	98.4	64.6	123	0	0	0	
Surr: Dibromofluoromethane	51.84	0	50	0	104	76.6	133	0	0	0	
Surr: Toluene-d8	51.79	0	50	0	104	77.8	120	0	0	0	

Sample ID: 1303049-008AMSD	Client ID: GW-035029-022713-SAG-008	Units: ug/L	Prep Date: 03/04/2013	Run No: 239412							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 173080	Analysis Date: 03/04/2013	Seq No: 5011937							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	63.21	5.0	50	0	126	60	168	66.97	5.78	18.6	
Benzene	49.61	5.0	50	0	99.2	66.6	148	49.32	0.586	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: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Workorder: 1303049

ANALYTICAL QC SUMMARY REPORT

BatchID: 173080

Sample ID: 1303049-008AMSD	Client ID: GW-035029-022713-SAG-008	Units: ug/L	Prep Date: 03/04/2013	Run No: 239412							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 173080	Analysis Date: 03/04/2013	Seq No: 5011937							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	45.60	5.0	50	0	91.2	71.9	135	46.32	1.57	20	
Toluene	47.23	5.0	50	0	94.5	68	149	48.28	2.2	20	
Trichloroethene	46.56	5.0	50	0	93.1	71.1	154	47.01	0.962	20	
Surr: 4-Bromofluorobenzene	49.91	0	50	0	99.8	64.6	123	49.19	0	0	
Surr: Dibromofluoromethane	52.22	0	50	0	104	76.6	133	51.84	0	0	
Surr: Toluene-d8	52.34	0	50	0	105	77.8	120	51.79	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		



**CONESTOGA-ROVERS
& ASSOCIATES**

2055 Niagara Falls Blvd., Suite #3
Niagara Falls, New York 14304
Telephone: (716) 297-6150 Fax: (716) 297-2265
www.CRAworld.com

MEMORANDUM

TO: Mike Reinhardt
FROM: Paul McMahon/bjw/8 *PM*
C.C.: Terefe Mazengia
RE: Analytical Results and Reduced Validation
Groundwater Monitoring Wells - Passive Diffusion Bags
Arivec Site
Douglasville, Georgia
March 2013

REF. NO.: 035029
DATE: April 4, 2013

INTRODUCTION

The following document details a reduced validation of analytical results for groundwater samples collected at the Arivec site in March 2013. Samples were submitted to Analytical Environmental Services, Inc. (AES), in Atlanta, Georgia. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard Conestoga-Rovers & Associates (CRA) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, and recovery data from surrogate spikes and laboratory control samples (LCS).

The QA/QC criteria by which these data have been assessed are outlined in the analytical method referenced in Table 3 and the document entitled:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999

SAMPLE HOLDING TIME AND PRESERVATION

The sample holding time criterion for the analyses is summarized in Table 3. Sample chain of custody documents and the analytical report were used to determine sample holding times. All samples were analyzed within the required holding time.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

LABORATORY METHOD BLANK ANALYSES

Method blanks are prepared from deionized water and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

SURROGATE SPIKE RECOVERIES

In accordance with the method employed, all samples, blanks and QC samples analyzed for volatile organic compounds (VOCs) are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for VOC determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis. Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were acceptable.

LABORATORY CONTROL SAMPLE (LCS) ANALYSES

An LCS is prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. For this study, LCS were analyzed at a minimum frequency of one per 20 investigative samples and/or one per analytical batch.

All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy.

ANALYTE REPORTING

The laboratory reported detected results down to the laboratory's PQL for each analyte. Non-detect results were presented as non-detect at the PQL in Table 2.

CONCLUSION

Based on this assessment of the information provided, the data produced by AES were found to exhibit acceptable levels of accuracy and precision and may be used without qualification.

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER MONITORING WELLS (PDB)
ARIVEC
DOUGLASVILLE, GEORGIA
MARCH 2013

<i>Sample ID</i>	<i>Location ID</i>	<i>Collection Date (mm/dd/yy)</i>	<i>Collection Time (hr:min)</i>	<i>Analysis/Parameters</i>
				VOCs
GW-031513-DJB-107	MW-15B	3/15/2013	10:00	X
GW-031513-DJB-108	MW-9B	3/15/2013	10:30	X
GW-031513-DJB-109	MW-2B	3/15/2013	10:45	X

Notes:

VOCs Volatile organic compounds.

PDB Passive diffusion bags.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS - (PDB)
ARIVEC
DOUGLASVILLE, GEORGIA
MARCH 2013

	<i>Location Name:</i>	<i>MW-2B</i>	<i>MW-9B</i>	<i>MW-15B</i>
	<i>Sample Name:</i>	<i>GW-031513-DJB-109</i>	<i>GW-031513-DJB-108</i>	<i>GW-031513-DJB-107</i>
	<i>Sample Date:</i>	<i>3/15/2013</i>	<i>3/15/2013</i>	<i>3/15/2013</i>
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds</i>				
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	140	10	5.0 U
1,1-Dichloroethene	µg/L	31	6.9	5.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	8.6	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U
1,4-Dioxane	µg/L	150 U	150 U	150 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	50 U	50 U
2-Hexanone	µg/L	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U
Acetone	µg/L	50 U	50 U	50 U
Benzene	µg/L	340	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS - (PDB)
ARIVEC
DOUGLASVILLE, GEORGIA
MARCH 2013

	<i>Location Name:</i>	<i>MW-2B</i>	<i>MW-9B</i>	<i>MW-15B</i>
	<i>Sample Name:</i>	<i>GW-031513-DJB-109</i>	<i>GW-031513-DJB-108</i>	<i>GW-031513-DJB-107</i>
	<i>Sample Date:</i>	<i>3/15/2013</i>	<i>3/15/2013</i>	<i>3/15/2013</i>
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds (Continued)</i>				
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	54	10 U	10 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	10 U	10 U	10 U
cis-1,2-Dichloroethene	µg/L	4500	170	5.1
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U
Cyclohexane	µg/L	5.0 U	5.0 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	10 U	10 U	10 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U
Isopropyl benzene	µg/L	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	µg/L	5.0 U	5.0 U	5.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U
Toluene	µg/L	18	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	13	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER MONITORING WELLS - (PDB)
ARIVEC
DOUGLASVILLE, GEORGIA
MARCH 2013

	<i>Location Name:</i>	<i>MW-2B</i>	<i>MW-9B</i>	<i>MW-15B</i>
	<i>Sample Name:</i>	<i>GW-031513-DJB-109</i>	<i>GW-031513-DJB-108</i>	<i>GW-031513-DJB-107</i>
	<i>Sample Date:</i>	<i>3/15/2013</i>	<i>3/15/2013</i>	<i>3/15/2013</i>
<i>Parameters</i>	<i>Units</i>			
<i>Volatile Organic Compounds (Continued)</i>				
Trichloroethene	µg/L	5.0 U	8.3	5.0 U
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	10 U	10 U	10 U
Vinyl chloride	µg/L	4900	2.0	2.0 U
Xylenes (total)	µg/L	33	5.0 U	5.0 U

Notes:

PDB Passive Diffusion Bags.
U Not detected at the associated reporting limit.

TABLE 3
SAMPLE HOLDING TIME CRITERIA AND ANALYTICAL METHOD SUMMARY
GROUNDWATER MONITORING WELLS (PDB)
ARIVEC
DOUGLASVILLE, GEORGIA
MARCH 2013

<i>Parameter</i>	<i>Matrix</i>	<i>Analytical Method</i>	<i>Collection to Analysis</i>
VOCs	Water	SW-846 8260 ⁽¹⁾	14 Days

Notes:

- (1) Referenced from "Test Methods for Evaluating Solid Waste", USEPA SW-846, 3rd Edition, 1994 with all subsequent revisions.
- VOCs Volatile organic compounds.
- USEPA United States Environmental Protection Agency.
- PDB Passive diffusion bags.



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 25, 2013

Mike Reinhardt
Conestoga, Rovers, & Associates, Inc.
3075 Breckinridge Blvd., Suite 470
Duluth GA 30096

TEL: (770) 441-0027
FAX: (770) 441-2050

RE: Arivec

Dear Mike Reinhardt:

Order No: 1303E49

Analytical Environmental Services, Inc. received 3 samples on 3/15/2013 1:36:00 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' certifications are as follows:

- NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/12-06/30/13.
- AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/13.

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.

Chantelle Kanhai
Project Manager



CHAIN OF CUSTODY RECORD

Address: Breckinridge Blvd Duluth GA
Phone: 770-441-0027 Fax: 770-441-2050

COC NO.: 33777

1303 E 49

PAGE 1 OF 1

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 035029-02				Laboratory Name: AES						Lab Location: Atlanta				SSOW ID: 35029-01					
Project Name: Arivec				Lab Contact: Chantelle Kanhai						Lab Quote No:				Cooler No: 1					
Project Location: Douglasville, GA				CONTAINER QUANTITY & PRESERVATION						ANALYSIS REQUESTED (See Back of COC for Definitions)				Carrier:					
Chemistry Contact: Paul McMahon				SAMPLE TYPE										Airbill No:					
Sampler(s): David Brytauskis				Matrix Code (see back of COC)										Date Shipped: 3/15/13					
DATE (mm/dd/yyyy)				TIME (hh:mm)		Grab (G) or Comp (C)										COMMENTS/ SPECIAL INSTRUCTIONS:			
TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Weeks ☒ Other: Standard				Total Number of Containers: 6						Notes/ Special Requirements:									
All Samples in Cooler must be on COC																			
RELINQUISHED BY [Signature]				COMPANY CRA		DATE 3/15/13		TIME 13:36		RECEIVED BY Latoya P				COMPANY Chert		DATE 3/15/13		TIME 1:36pm	

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Analytical Environmental Services, Inc
Date: 25-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303E49-001

Client Sample ID: GW-031513-DJB-107
Collection Date: 3/15/2013 10:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,1-Dichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,1-Dichloroethene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,2-Dibromoethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,2-Dichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,2-Dichloropropane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
1,4-Dioxane	BRL	150		ug/L	173718	1	03/19/2013 05:45	DB
2-Butanone	BRL	50		ug/L	173718	1	03/19/2013 05:45	DB
2-Hexanone	BRL	10		ug/L	173718	1	03/19/2013 05:45	DB
4-Methyl-2-pentanone	BRL	10		ug/L	173718	1	03/19/2013 05:45	DB
Acetone	BRL	50		ug/L	173718	1	03/19/2013 05:45	DB
Benzene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Bromodichloromethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Bromoform	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Bromomethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Carbon disulfide	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Carbon tetrachloride	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Chlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Chloroethane	BRL	10		ug/L	173718	1	03/19/2013 05:45	DB
Chloroform	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Chloromethane	BRL	10		ug/L	173718	1	03/19/2013 05:45	DB
cis-1,2-Dichloroethene	5.1	5.0		ug/L	173718	1	03/19/2013 05:45	DB
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Cyclohexane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Dibromochloromethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Dichlorodifluoromethane	BRL	10		ug/L	173718	1	03/19/2013 05:45	DB
Ethylbenzene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Freon-113	BRL	10		ug/L	173718	1	03/19/2013 05:45	DB
Isopropylbenzene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Methyl acetate	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Methylcyclohexane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Methylene chloride	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Styrene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB

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: 25-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303E49-001

Client Sample ID: GW-031513-DJB-107
Collection Date: 3/15/2013 10:00:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Toluene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Trichloroethene	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Trichlorofluoromethane	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Vinyl chloride	BRL	2.0		ug/L	173718	1	03/19/2013 05:45	DB
Xylenes, Total	BRL	5.0		ug/L	173718	1	03/19/2013 05:45	DB
Surr: 4-Bromofluorobenzene	85.3	64.6-123		%REC	173718	1	03/19/2013 05:45	DB
Surr: Dibromofluoromethane	113	76.6-133		%REC	173718	1	03/19/2013 05:45	DB
Surr: Toluene-d8	94.9	77.8-120		%REC	173718	1	03/19/2013 05:45	DB

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: 25-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303E49-002

Client Sample ID: GW-031513-DJB-108
Collection Date: 3/15/2013 10:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,1-Dichloroethane	10	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,1-Dichloroethene	6.9	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,2-Dibromoethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,2-Dichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,2-Dichloropropane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
1,4-Dioxane	BRL	150		ug/L	173718	1	03/19/2013 06:10	DB
2-Butanone	BRL	50		ug/L	173718	1	03/19/2013 06:10	DB
2-Hexanone	BRL	10		ug/L	173718	1	03/19/2013 06:10	DB
4-Methyl-2-pentanone	BRL	10		ug/L	173718	1	03/19/2013 06:10	DB
Acetone	BRL	50		ug/L	173718	1	03/19/2013 06:10	DB
Benzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Bromodichloromethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Bromoform	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Bromomethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Carbon disulfide	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Carbon tetrachloride	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Chlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Chloroethane	BRL	10		ug/L	173718	1	03/19/2013 06:10	DB
Chloroform	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Chloromethane	BRL	10		ug/L	173718	1	03/19/2013 06:10	DB
cis-1,2-Dichloroethene	170	50		ug/L	173718	10	03/20/2013 02:04	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Cyclohexane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Dibromochloromethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Dichlorodifluoromethane	BRL	10		ug/L	173718	1	03/19/2013 06:10	DB
Ethylbenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Freon-113	BRL	10		ug/L	173718	1	03/19/2013 06:10	DB
Isopropylbenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Methyl acetate	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Methylcyclohexane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Methylene chloride	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Styrene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB

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: 25-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303E49-002

Client Sample ID: GW-031513-DJB-108
Collection Date: 3/15/2013 10:30:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Toluene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
trans-1,2-Dichloroethene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Trichloroethene	8.3	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Trichlorofluoromethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Vinyl chloride	2.0	2.0		ug/L	173718	1	03/19/2013 06:10	DB
Xylenes, Total	BRL	5.0		ug/L	173718	1	03/19/2013 06:10	DB
Surr: 4-Bromofluorobenzene	85.5	64.6-123		%REC	173718	1	03/19/2013 06:10	DB
Surr: 4-Bromofluorobenzene	85	64.6-123		%REC	173718	10	03/20/2013 02:04	NH
Surr: Dibromofluoromethane	108	76.6-133		%REC	173718	10	03/20/2013 02:04	NH
Surr: Dibromofluoromethane	114	76.6-133		%REC	173718	1	03/19/2013 06:10	DB
Surr: Toluene-d8	90	77.8-120		%REC	173718	1	03/19/2013 06:10	DB
Surr: Toluene-d8	91.4	77.8-120		%REC	173718	10	03/20/2013 02:04	NH

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: 25-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303E49-003

Client Sample ID: GW-031513-DJB-109
Collection Date: 3/15/2013 10:45:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
1,1,1-Trichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,1,2,2-Tetrachloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,1,2-Trichloroethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,1-Dichloroethane	140	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,1-Dichloroethene	31	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,2,4-Trichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,2-Dibromo-3-chloropropane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,2-Dibromoethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,2-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,2-Dichloroethane	8.6	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,2-Dichloropropane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,3-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,4-Dichlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
1,4-Dioxane	BRL	150		ug/L	173718	1	03/19/2013 06:35	DB
2-Butanone	BRL	50		ug/L	173718	1	03/19/2013 06:35	DB
2-Hexanone	BRL	10		ug/L	173718	1	03/19/2013 06:35	DB
4-Methyl-2-pentanone	BRL	10		ug/L	173718	1	03/19/2013 06:35	DB
Acetone	BRL	50		ug/L	173718	1	03/19/2013 06:35	DB
Benzene	340	250		ug/L	173718	50	03/20/2013 01:39	NH
Bromodichloromethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Bromoform	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Bromomethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Carbon disulfide	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Carbon tetrachloride	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Chlorobenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Chloroethane	54	10		ug/L	173718	1	03/19/2013 06:35	DB
Chloroform	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Chloromethane	BRL	10		ug/L	173718	1	03/19/2013 06:35	DB
cis-1,2-Dichloroethene	4500	250		ug/L	173718	50	03/20/2013 01:39	NH
cis-1,3-Dichloropropene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Cyclohexane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Dibromochloromethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Dichlorodifluoromethane	BRL	10		ug/L	173718	1	03/19/2013 06:35	DB
Ethylbenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Freon-113	BRL	10		ug/L	173718	1	03/19/2013 06:35	DB
Isopropylbenzene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Methyl acetate	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Methyl tert-butyl ether	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Methylcyclohexane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Methylene chloride	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Styrene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB

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: 25-Mar-13

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Lab ID: 1303E49-003

Client Sample ID: GW-031513-DJB-109
Collection Date: 3/15/2013 10:45:00 AM
Matrix: Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS SW8260B				(SW5030B)				
Tetrachloroethene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Toluene	18	5.0		ug/L	173718	1	03/19/2013 06:35	DB
trans-1,2-Dichloroethene	13	5.0		ug/L	173718	1	03/19/2013 06:35	DB
trans-1,3-Dichloropropene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Trichloroethene	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Trichlorofluoromethane	BRL	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Vinyl chloride	4900	100		ug/L	173718	50	03/20/2013 01:39	NH
Xylenes, Total	33	5.0		ug/L	173718	1	03/19/2013 06:35	DB
Surr: 4-Bromofluorobenzene	88.6	64.6-123		%REC	173718	50	03/20/2013 01:39	NH
Surr: 4-Bromofluorobenzene	105	64.6-123		%REC	173718	1	03/19/2013 06:35	DB
Surr: Dibromofluoromethane	110	76.6-133		%REC	173718	50	03/20/2013 01:39	NH
Surr: Dibromofluoromethane	104	76.6-133		%REC	173718	1	03/19/2013 06:35	DB
Surr: Toluene-d8	90	77.8-120		%REC	173718	50	03/20/2013 01:39	NH
Surr: Toluene-d8	82.7	77.8-120		%REC	173718	1	03/19/2013 06:35	DB

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.

Sample/Cooler Receipt Checklist

Client CRA

Work Order Number 1303E49

Checklist completed by [Signature] Date 03/16/2013

Carrier name: FedEx ☐ UPS ☐ Courier ☐ Client ☒ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3.5 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☒ No ☐

Samples in proper container/bottle? Yes ☒ No ☐

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☐ Yes ☒ No ☐

Water - pH acceptable upon receipt? Yes ☒ No ☐ Not Applicable ☐

Adjusted? ☐ Checked by ☐

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

Client: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Workorder: 1303E49

ANALYTICAL QC SUMMARY REPORT**BatchID: 173718**

Sample ID: MB-173718		Client ID:				Units: ug/L		Prep Date: 03/19/2013		Run No: 240406	
SampleType: MBLK		TestCode: Volatile Organic Compounds by GC/MS SW8260B				BatchID: 173718		Analysis Date: 03/19/2013		Seq No: 5032387	
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	0	0	0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0	0	
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0	0	
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
1,4-Dioxane	BRL	150	0	0	0	0	0	0	0	0	
2-Butanone	BRL	50	0	0	0	0	0	0	0	0	
2-Hexanone	BRL	10	0	0	0	0	0	0	0	0	
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0	0	
Acetone	BRL	50	0	0	0	0	0	0	0	0	
Benzene	BRL	5.0	0	0	0	0	0	0	0	0	
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Bromoform	BRL	5.0	0	0	0	0	0	0	0	0	
Bromomethane	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0	0	
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0	0	
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Chloroethane	BRL	10	0	0	0	0	0	0	0	0	
Chloroform	BRL	5.0	0	0	0	0	0	0	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: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Workorder: 1303E49

ANALYTICAL QC SUMMARY REPORT**BatchID: 173718**

Sample ID: MB-173718	Client ID:					Units: ug/L	Prep Date: 03/19/2013	Run No: 240406			
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 173718	Analysis Date: 03/19/2013	Seq No: 5032387			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Chloromethane	BRL	10	0	0	0	0	0	0	0	0	
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0	0	
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Freon-113	BRL	10	0	0	0	0	0	0	0	0	
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0	0	
Methyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0	0	
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0	0	
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0	0	
Styrene	BRL	5.0	0	0	0	0	0	0	0	0	
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Toluene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0	0	
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0	0	
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0	0	
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0	0	
Surr: 4-Bromofluorobenzene	42.16	0	50	0	84.3	64.6	123	0	0	0	
Surr: Dibromofluoromethane	55.68	0	50	0	111	76.6	133	0	0	0	
Surr: Toluene-d8	46.00	0	50	0	92	77.8	120	0	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: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Workorder: 1303E49

ANALYTICAL QC SUMMARY REPORT**BatchID: 173718**

Sample ID: LCS-173718	Client ID:					Units: ug/L	Prep Date: 03/19/2013	Run No: 240406			
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 173718	Analysis Date: 03/19/2013	Seq No: 5032382			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	64.20	5.0	50	0	128	61.1	142	0	0	0	
Benzene	54.43	5.0	50	0	109	73.5	130	0	0	0	
Chlorobenzene	45.36	5.0	50	0	90.7	72.4	123	0	0	0	
Toluene	55.42	5.0	50	0	111	73.6	130	0	0	0	
Trichloroethene	54.86	5.0	50	0	110	70	135	0	0	0	
Surr: 4-Bromofluorobenzene	56.38	0	50	0	113	64.6	123	0	0	0	
Surr: Dibromofluoromethane	53.11	0	50	0	106	76.6	133	0	0	0	
Surr: Toluene-d8	52.06	0	50	0	104	77.8	120	0	0	0	

Sample ID: 1303D80-001AMS	Client ID:					Units: ug/L	Prep Date: 03/19/2013	Run No: 240406			
SampleType: MS	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 173718	Analysis Date: 03/19/2013	Seq No: 5032384			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.66	5.0	50	0	123	60	168	0	0	0	
Benzene	67.99	5.0	50	10.02	116	66.6	148	0	0	0	
Chlorobenzene	46.58	5.0	50	0	93.2	71.9	135	0	0	0	
Toluene	59.24	5.0	50	2.650	113	68	149	0	0	0	
Trichloroethene	54.58	5.0	50	0	109	71.1	154	0	0	0	
Surr: 4-Bromofluorobenzene	54.64	0	50	0	109	64.6	123	0	0	0	
Surr: Dibromofluoromethane	51.47	0	50	0	103	76.6	133	0	0	0	
Surr: Toluene-d8	49.99	0	50	0	100	77.8	120	0	0	0	

Sample ID: 1303D80-001AMSD	Client ID:					Units: ug/L	Prep Date: 03/19/2013	Run No: 240406			
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B					BatchID: 173718	Analysis Date: 03/19/2013	Seq No: 5032385			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,1-Dichloroethene	61.19	5.0	50	0	122	60	168	61.66	0.765	18.6	
Benzene	63.93	5.0	50	10.02	108	66.6	148	67.99	6.16	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: Conestoga, Rovers, & Associates, Inc.
Project Name: Arivec
Workorder: 1303E49

ANALYTICAL QC SUMMARY REPORT

BatchID: 173718

Sample ID: 1303D80-001AMSD	Client ID:	Units: ug/L	Prep Date: 03/19/2013	Run No: 240406							
SampleType: MSD	TestCode: Volatile Organic Compounds by GC/MS SW8260B	BatchID: 173718	Analysis Date: 03/19/2013	Seq No: 5032385							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Chlorobenzene	43.86	5.0	50	0	87.7	71.9	135	46.58	6.02	20	
Toluene	54.32	5.0	50	2.650	103	68	149	59.24	8.67	20	
Trichloroethene	49.68	5.0	50	0	99.4	71.1	154	54.58	9.4	20	
Surr: 4-Bromofluorobenzene	53.15	0	50	0	106	64.6	123	54.64	0	0	
Surr: Dibromofluoromethane	50.09	0	50	0	100	76.6	133	51.47	0	0	
Surr: Toluene-d8	48.87	0	50	0	97.7	77.8	120	49.99	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		