General Motors LLC

General Motors LLC
Worldwide Facilities Group
Remediation Team
One General Motors Drive
Syracuse, NY 13206

June 21, 2010

Glenn May
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Ave.
Buffalo, NY 14203-2999

Re: Delphi Harrison Thermal Systems Site #932113
Results of April 2010 Natural Attenuation Groundwater Sampling

Dear Mr. May,

Enclosed for your review and comment is a letter report summarizing the results of the monitoring natural attenuation groundwater sampling performed at the above referenced Site in April 2010. The report also includes recommendations for future sampling made by GZA GeoEnvironmental of New York (GZA).

As you know, GM Components Holdings LLC has purchased the Lockport Facility from Delphi and is working with the New York State Department of Environmental Conservation (Department) to complete the environmental easement and to memorialize a remedial action consent order in order to formally implement the requirements of the record of decision for the site. During this period of transition, GMCH has continued to perform the groundwater monitoring required by the Site Management Plan and in accordance with correspondence regarding the program between the Department and the project consultant (GZA).

We look forward to the Department's review, comments and approval of the enclosed report.

Sincerely,

James F. Hartnett

Enclosure: GZA Letter Report April 2010 GW Sampling

Cc: Matt Forcucci – NYSDOH (electronic copy)
Maura Desmond – NYSDEC (electronic copy)
Roy Knapp – GMCH Lockport (electronic copy)
James Walle Esq. - GM Legal Staff (electronic copy)

GZA GeoEnvironmental

Engineers and Scientists

June 21, 2010
File No. 21.0056546.0

Mr. James Hartnett
General Motors LLC
1 General Motors Drive
Syracuse, NY 13206-1127

Re: Results of April 2010 Natural Attenuation Groundwater Sampling
Delphi Harrison Thermal Systems Site (Site)
Lockport, New York
Registry Site #932113

535 Washington Street
11th Floor
Buffalo, New York
14203
716-685-2300
FAX 716-685-3629
www.gza.com

Dear Mr. Hartnett:

GZA GeoEnvironmental of New York (GZA) prepared this letter report to summarize the results of the April 2010 comprehensive groundwater sampling and natural attenuation parameter monitoring event at the above referenced Site. The groundwater sampling event discussed in this letter report was conducted from April 27th through April 30th, 2010. It included ten monitoring wells (MW-4, -7, -8, -9, -10, -11, -12, -13, -14 and -15) that were sampled for the compounds of concern (COCs)[1] and natural attenuation parameters as indentified in the Site Management Plan[2] (SMP).

BACKGROUND

In July 2009, an initial comprehensive groundwater sampling event, consisting of ten monitoring wells (MW-4, MW-7 through MW-15), was completed based on the recommendations GZA made in our April 20, 2009 letter report. Based on the findings of the July 2009 sampling event, we recommended that the ten (10) wells sampled in July 2009 be resampled to evaluate if conditions in the central portion of the groundwater plume (MW-4, -8, -9, and -10) are changing and having an effect on the downgradient wells (MW-11, -12, -13, -14 and -15). This next sampling event was also intended to address the comments made by the New York State Department of Environmental Conservation (NYSDEC) in its letter dated January 19, 2010 on whether certain conditions observed in the July 2009 sampling suggested a trend away from favorable conditions for monitored natural attenuation.

[1] These five COCs are trichloroethylene, tetrachloroethylene, cis-1,2-dichloroethene, trans-1,2-dichloroethylene, and vinyl chloride.
[2] "Site Management Plan, Delphi Thermal Systems Site, Lockport, New York, Site Number 932113" dated August 2007. Prepared for the New York State Department of Environmental Conservation, prepared by GZA GeoEnvironmental of New York. GZA File No. 21.0056192.10

APRIL 2010 GROUNDWATER MONITORING & SAMPLING

The groundwater monitoring and sampling work that was conducted from April 27th through April 30th, 2010 was completed in accordance with the NYSDEC approved SMP, which includes an Operation, Maintenance & Monitoring Plan (OM&M Plan). This groundwater sampling event included ten monitoring wells (MW-4, -7 through -15, see Figure 1) that were sampled for COCs and natural attenuation parameters.

METHODOLOGY

The natural attenuation monitoring and groundwater sampling was done using low flow sampling techniques. A peristaltic pump, disposable polyethylene tubing and a water quality meter with flow through cell, were used to collect water quality readings and groundwater samples. The sampling technique and analytical parameters were consistent with previous sample rounds identified in the OM&M Plan with one exception - groundwater samples were not analyzed for ammonia.

The following is the list of the various analytical parameters for this sampling event:

Field Measured Parameters: temperature, specific conductance, pH, turbidity, dissolved oxygen (DO) and oxidation reduction potential (ORP).

Compounds of Concerns: tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2-dichloroethylene (cis-DCE), trans-1,2-dichloroethylene (trans-DCE) and vinyl chloride (VC).

Natural Attenuation Parameters: methane, dissolved iron, dissolved magnesium, dissolved manganese, dissolved potassium, dissolved sodium, alkalinity, total organic carbon, chloride, nitrate, nitrite, sulfate and sulfide.

Groundwater pumping rates used during the monitoring/sampling varied at the monitoring locations in order to establish a relatively constant head during the pumping/monitoring. Once a constant head was established within the monitoring well, the flow rates were maintained during the monitoring/sampling period. The Monitoring Well Observations & Groundwater Sampling Logs are included in Appendix A. Samples were collected for analysis once a constant flow was established, water quality readings stabilized, and after a minimum of at least one well volume was purged.

ANALYTICAL RESULTS & DISCUSSION

Analytical results for the COCs are shown on Figure 1 along with the data from previous sample rounds. A contour map of the Total COCs concentrations are presented in Figure 2 and a groundwater contour map of the groundwater elevation data collected is shown in Figure 3. It should be noted that the concentrations of cis-DCE and trans-DCE have been combined and presented as a single concentration in Figure 1 and for purposes of discussion below as 1,2-DCE.

Results of the natural attenuation parameter monitoring are shown on Table 1 along with the data from previous sample rounds. The complete Test America laboratory report is included in Appendix B of this letter report.

Compounds of Concern

Source Area Monitoring Well

MW-7: The results indicated an increase in the PCE and VC concentrations and the concentrations of TCE and 1,2-DCE are relatively consistent with the previous sampling round in July 2009.

Mid Plume Monitoring Wells

MW-4: The results are relatively consistent with the previous sampling event conducted at this location in July 2009.

MW-8: The results indicate a slight increase in the COCs from the previous sampling event in July 2009.

MW-9: The results indicate a slight decrease in the COCs since the previous sampling round in July 2009.

MW-10: The results indicate a decrease in the COCs since the previous sampling round in July 2009.

Downgradient Monitoring Wells

MW-11: 1,2-DCE (0.0019 mg/L) and VC (0.0039 mg/L) were detected above method detection limits. The detection of VC slightly exceeds its NYSDEC Class GA groundwater standard of 0.002 mg/L. PCE and TCE were not detected above method detection limits. These results are relatively consistent with previous sample rounds.

MW-12: PCE (0.0011 mg/L) and TCE (0.0028 mg/L) were both detected above method detection limits but below their respective NYSDEC Class GA groundwater standards. The results of 1,2-DCE and VC confirm a slight

increase in the concentration of these two compounds in the recent sampling events.

MW-13: The results for the COCs were below method detection limits consistent with previous sampling events dating back to 2001 when the monitoring well was installed.

MW-14: The results for the COCs were below method detection limits.

MW-15: TCE (0.0007 mg/L) and PCE (0.0077 mg/L) were detected above method detection limits. The PCE results slightly exceed its NYSDEC Class GA groundwater standard of 0.005 mg/L. 1,2-DCE and VC were not detected above method detection limits consistent with previous sample rounds.

General Natural Attenuation Performance

To assess the April 2010 groundwater data regarding natural attenuation performance, GZA evaluated data obtained along the plume centerline from the source area to near the assumed leading edge of the plume. GZA utilized the following monitoring wells to provide representative water quality data along the general centerline flow path of the groundwater plume: MW-7 (near source area), MW-4 (point mid plume), MW-9 (point mid centerline), and MW-12 (point near leading edge).

GZA evaluated these wells using the approach developed by EPA (1998[3]). A copy of the EPA scoring results is attached as Table 2. GZA makes the following observations regarding the scoring data for these wells:

- Well MW-7 (near source area) – According to the scoring results there is limited evidence for anaerobic biodegradation of COCs at this well location. GZA notes there appears to be an overall decreasing temporal trend in total organic carbon (TOC) concentrations[4], suggesting that organic carbon is becoming depleted, allowing oxidant concentrations to rebound, which effectively shuts down chlorinated volatile organic compound (cVOC) natural attenuation via a reductive dechlorination pathway. For example, the historical data reflects an overall decreasing temporal concentration trend for TCE, the primary COC, likely driven by the TOC in about 1996. However, the rate of dechlorination appears to have slowed since TOC concentrations decreased below the 20 mg/L threshold limit proposed by EPA (1998);
- Well MW-4 (midpoint along centerline) – According to the scoring results, there is limited evidence for anaerobic biodegradation of COCs at this well location.

[3] US Environmental Protection Agency (EPA), Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water, EPA/600/R-98/128 (September 1998)

[4] For example, the first three values were each about the minimum threshold value of 20 mg/L that EPA (1998) suggesting it is consistent with suitable conditions for cVOC (chlorinated volatile organic compounds) natural attenuation. GZA notes that only one of four TOC detects from about 2007 exceeded that minimum threshold value.

GZA notes there appears to be an overall decreasing temporal trend in TOC concentrations[5], suggesting that organic carbon is becoming depleted, which effectively shuts down cVOC dechlorination as previously discussed. GZA notes that the detected TCE concentration at this well is asymptotic at between about 20 to 40 mg/L, which is not consistent with encouraging conditions for cVOC natural attenuation;

- Well MW-9 (midpoint along centerline) – According to the scoring results there is limited evidence for anaerobic biodegradation of COCs at this well location. GZA notes that the detected TCE concentration at this well is asymptotic at between about 1 to 2 mg/L, which is not consistent with encouraging conditions for cVOC natural attenuation; and
- Well MW-12 (near leading edge) – According to the scoring results there is adequate to strong evidence for anaerobic biodegradation of COCs at this well location.

While the scoring results suggest limited evidence for COCs natural attenuation within the source area (well MW-7), and midpoint along the flow path (wells MW-4 and MW-9), they suggest adequate evidence at the leading edge of the plume (well MW-12).

The increase in the level of TCE and 1,2 -DCE at MW- 14 does not necessarily suggest conditions at that location are not favorable for natural attenuation. Despite the detections of TCE and 1,2-DCE concentrations at well MW-14 during the two 2009 sampling rounds, TCE and 1,2-DCE were not detected above method detection limits during the April 2010 sampling round. The reporting limit (0.0005 mg/L) for TCE was the lowest historical analytical reporting limit for this compound at that well location, suggesting the spiked concentration increase for the two 2009 sampling rounds was anomalous.

To provide clarity on the nature of COCs natural attenuation at MW-14, GZA scored the performance data set for the July 2009 sampling round of that well using the EPA (1998) approach. A copy of the EPA scoring results is attached as Table 3. According to the scoring results, there is adequate evidence for anaerobic biodegradation of the COCs at that well location.

In addition to using EPA's scoring system to rank the data set, GZA also estimated molar TCE ratios[6] along the general flow path (*i.e.,* MW-7 to MW-4 to MW-9 to MW-12) for

[5] For example, the last detected TOC concentration was the lowest detected value since monitoring for that parameter began at that well in 1998.

[6] Given that one mole of parent TCE yields one mole of daughter *cis*-1,2-DCE via a reductive dechlorination pathway, mass per volume measurements of each parameter are biased by the mass difference between both chemical compounds (*i.e.,* while one mole of TCE yields one mole of 1,2-DCE, one gram of TCE yields less than one gram of 1,2-DCE due to the replacement of a heavier chlorine [atomic weight: 35.4527] with lighter hydrogen [atomic weight: 1.00794]). Therefore, GZA normalizes cVOC data to its molar equivalency to evaluate molar TCE ratios. (Molar TCE Ratio = Ratio of $TCE_{molar\ basis}$ to $TCE_{molar\ basis}$ + *cis*-1,2-$DCE_{molar\ basis}$ + $VC_{molar\ basis}$.)

the April 2010 groundwater data. The following table summarizes the results:

WELL	TCE		*cis*-1,2-DCE		VC		MOLAR TCE RATIO (%)	FLOW PATH
	mg/L	mol/L	mg/L	mol/L	mg/L	mol/L		
MW-7	800	6.09E-03	55.2	5.58E-04	9.0	1.44E-04	89.7	↓
MW-4	20	1.52E-04	43.2	4.37E-04	9.6	1.54E-04	20.5	
MW-9	2.2	1.67E-05	1.1	1.11E-05	0.013	2.08E-07	59.7	
MW-12	0.0028	2.13E-08	0.272	2.75E-06	0.120	1.92E-06	0.5	

Notes:
1. The Molar TCE ratio is calculated as the ratio of TCE molar concentration (moles per liter, mol/L) to the sum of TCE, 1,2-DCE, and VC molar concentrations.

As shown in this table, the molar TCE ratio is highest in the source area (89.7%), notably lower at midpoint locations (20.5% and 59.7%), and lowest at the leading edge (0.5%). The fact the molar TCE ratio progressively decreases along the flow path suggests that natural attenuation processes are currently managing TCE mass flux, and the nature of the cVOC signature change is consistent with a reductive dechlorination pathway. With regard to the transformation of TCE through to VC, Gossett and Zinder (1996)[7] note that: "*…relying on reductive dechlorination to achieve complete conversion to ethene may not be necessary in all cases; for example, some aerobic and iron-reducing microbial processes can oxidize/mineralize VC. Therefore, conversion of PCE to TCE to VC by the time a plume reaches an aerobic or iron-reducing zone may be sufficient in many instances.*"

Given these conditions coupled with the lack of evidence of an expanding plume, it appears natural attenuation processes are effectively managing the COC plume migration under current conditions with a singular caveat. If TOC concentrations continue to decrease and remain below the minimum threshold value for supporting dechlorination (about 20 mg/L),[8] then natural attenuation processes may not be sufficient to manage cVOC migration. GZA will therefore closely monitor TOC concentrations going forward and will develop an appropriate action plan should data become consistent with the development of limiting conditions.

[7] Gossett, J.M. and Zinder, S.H., 1996, Microbiological aspects relevant to natural attenuation of chlorinated ethenes, in proceedings, Symposium on Natural Attenuation of Chlorinated Organics in Ground Water, EPA, 169 p.

[8] GZA notes, for example, that not a single TOC measurement for the April 2010 sampling round exceeded the minimum threshold value of 20 mg/L.

RESPONSE TO NYSDEC COMMENTS (January 10, 2010 Comment Letter)

1. ***Does the substantial increase in specific conductance in wells MW-4, MW-9 and MW-10 show a trend away from favorable conditions for monitored natural attenuation?***

Response. With regards to the increase in specific conductance values at wells MW-4, MW-9, and MW-10, based on our experience, the increased values would have no deleterious effects upon natural attenuation mechanisms. Based on our experience, specific conductance values can vary by an order of magnitude without exacerbating a reduction in cVOC dechlorination rates.

2. ***Does the substantial increase in oxidation reduction potential (ORP) in wells MW-4, MW-7, MW-11, MW-14 and MW-15 show a trend away from favorable conditions for monitored natural attenuation?***

Response. GZA does not believe that the increase in ORP necessarily represents a trend away from favorable conditions for monitored natural attenuation based on the following:

- MW-4, MW-7, MW-11: Despite the temporal increase in ORP values at these wells, ORP values have remained within the range required for reductive dechlorination to proceed; *i.e.,* <50 mV (EPA, 1998). The decreased ORP values may be associated with a decreasing temporal concentration trend for organic carbon concentrations at these wells;
- MW-14: Based on our review of the ORP data for this well, there is no apparent overall temporal trend in the data set. However, GZA notes that 6 of the 8 ORP values were each below the EPA (1998) threshold value of <50 mV; and
- MW-15: Based on our review of the ORP data for this well, there is similarly no apparent overall temporal trend in the data set. While GZA does note an increasing temporal trend from November 2007 (-128 mV) to July 2009 (135.7 mV), the ORP value for the last sampling round (April 2010) was 41.1 mV, which is still below EPA's (1998) threshold value of <50 mV.

CONCLUSIONS & RECOMMENDATIONS

Based on the results of the sampling, natural attenuation is occurring. There is limited evidence and a decreasing temporal trend in TOC concentrations near the source area (MW-7) and midpoint of the groundwater plume but adequate to strong evidence for anaerobic biodegradation of COCs at the leading edge of the groundwater plume.

GZA recommends resuming the annual groundwater sampling event utilizing seven (7) monitoring wells (MW-4, -7, -11, -12, -13, -14 and -15) in the fall of 2011. The TOC data obtained in the 2011 sampling event will be assessed to determine if additional action is required to assist the natural attenuation processes.

Please do not hesitate to contact the undersigned if you have any questions or require any additional information.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Christopher Boron
Senior Project Manager

Bart A. Klettke, P.E.
Associate Principal

for

I. Richard Schaffner
Consultant Reviewer

Table 1 – Natural Attenuation Parameter Results
Table 2 – Centerline of Plume Anaerobic Biodegradation Screening Summary
Table 3 – MW-14 Anaerobic Biodegradation Screening Summary
Figure 1 – Site Plan & Compound of Concern Analytical Data
Figure 2 – Total COC Contour Plan
Figure 3 – Groundwater Contour Plan
Appendix A: Monitoring Well Observations & Groundwater Sampling Logs
Appendix B: Test America Analytical Laboratory Report

cc: Roy Knapp (GMCH, electronic copy)

TABLES

Table 1
Summary of Groundwater Field Measurements and Analytical Test Results for Natural Attenuation Parameters
April 2010 Groundwater Sampling
Delphi Thermal Systems
West Lockport Complex
Lockport, New York

		Field Parameters					Analytical Test Results - Inorganic and Miscellaneous Water Quality Parameters																				
Location	Sample Date	Temp. (Deg. C)	Specific Cond. (mS/cm)	DO (mg/l)	ORP (mv)	pH (Std Units)	Methane (mg/l)	Organic Carbon (mg/l)	Alkalinity (mg/l)	Ammonia (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrite (mg/l)	Nitrate Nitrite (mg/l)	Sulfate (mg/l)	Sulfide (mg/l)	Calcium (mg/l)	Dissolved Calcium (mg/l)	Iron (mg/l)	Dissolved Iron (mg/l)	Magnesium (mg/l)	Dissolved Magnesium (mg/l)	Manganese (mg/l)	Dissolved Manganese (mg/l)	Sodium (mg/l)	Dissolved Sodium (mg/l)	Potassium (mg/l)	Dissolved Potassium (mg/l)
MW-4	12/2/1998	14.2	2,730	0.23	-56	6.6	2.9	19	354	1.23	986	0.30	<0.05		120	0.2	503	443	0.58	0.51	105	106	0.40	0.32	282	293	13.3	12.8
MW-4 DUP	12/2/1998	NA	NA	NA	NA	NA	5.5	8	368	1.57	971	0.05	<0.05		120	0.2	431	335	0.59	0.52	107	100	0.39	0.34	282	306	13.2	13.5
MW-4	10/7/1999	13.8	3,412	0.08	-92.8	6.7	4.2	47	360	1.03	1,010			0.08	110	0.3	269	318	0.42	0.45	98	116	0.23	0.34	240	305	10.4	13.1
MW-4	8/9/2001	12.6	3,420	0.12	-5.1	6.5	0.12	20.2	366	1.20	1,300	0.11	<0.05		190	0.2	371		1.01		107		0.54		384		12.7	
MW-4	10/31/2001	13.8	3,444	0.10	-128.0	6.6	3.3	10.8	366	1.17	1,100	<0.05	<0.05		160	1.2			0.77		102		0.46		358		12.3	
MW-4	7/20/2009	17.7	12,630	3.12	35.1	6.41	5.28	13	330	3.83	5,320	<0.6	<0.6		295	2.0				3.21		193		2.64		2,100		50.5
MW-4	4/29/2010	15.0	9,664	0.96	-2.1	6.5	1.8	4.3	333	NA	3,510	<0.05	<0.05		272	<1.0				3.15		152		1.86		1,700		26.1
MW-7	12/3/1998	17.3	3,130	0.33	-35	7.0	0.06	36	376	1.43	944	0.29	<0.05		200	0.4	382	375	0.14	0.02	118	136	<0.01	<0.01	288	351	20.5	23.0
MW-7[3]	10/7/1999	19.4	3,049	0.69	-52	7.1	0.02	58	420	1.10	1,180			0.11	180	0.4	286	255	0.86	0.05	138	145	0.05	0.02	292	306	21.4	24.0
MW-7	10/25/2006	17.4	2,620	1.08	-92	7.1	0.06	28	376	1.33	600	<0.05	<0.05		470	<0.01			0.23		112		0.02		237		19.4	
MW-7	11/29/2007	15.5	2,162	0.83	-195	7.2	0.13	14	322	1.14	430	<0.05	<0.05		519	0.8			0.58		98.5		0.05		278		20.7	
MW-7	11/4/2008	16.2	3,152	0.33	-80	6.8	0.11	4.4	348	0.08	980	<0.05	<0.05		23	<0.1	327		6.06		74		2.28		277		4.39	
MW-7	2/24/2009	13.1	1,718	1.22	-68	7.3	0.04	NM	270	0.98	410	<0.05	<0.05		430	<0.1	193		0.09		86.7		0.04		213		14.2	
MW-7	7/20/2009	16.4	2,558	10.14	32	7.1	0.07	28	310	1.28	452	<0.6	<0.6		460	2.4				0.03		84.9		0.03		230		24.1
MW-7	4/29/2010	15.0	1,540	3.14	-13.4	7.24	0.057	10.9	239	NA	280	<0.05	<0.05		479	<1.0				0.41		70.2		0.02		204		13.9
MW-8	12/2/1998	16.7	3,210	0.90	-68	6.9	0.09	12	300	0.40	138	<0.05	<0.05		550	0.2	215	227	0.33	0.17	76	78	0.31	0.32	102	114	6.31	6.67
MW-8	10/7/1999	19.7	1,640	0.08	-116.1	7.1	0.04	19	280	0.33	144			0.10	570	0.3	174	188	0.22	0.15	82.4	97.5	0.30	0.31	112	110	7.6	8.1
MW-8	7/15/2009	16.3	2,408	2.28	-48.6	6.9	2.0	22	300	0.76	457	<0.6	<0.6		588	2				0.03		102		0.40		246		15.7
MW-8	4/30/2010	12.84	2,206	0.36	-58.6	6.9	0.015	1.8	243	NA	486	<0.05	<0.05		500	<1.0				0.21		99.2		0.46		248		7.99
MW-9	12/2/1998	16.2	7,150	1.6	120	6.9	0.04	3	309	0.23	640	0.25	<0.05		680	<0.1	330	300	0.33	<0.01	89	84.5	1.74	0.93	444	445	5.52	5.91
MW-9	10/5/1999	18.7	4,042	0.08	103.5	6.9	0.02	24	330	0.20	963	0.46	<0.05		520	<0.1	250	283	0.20	0.02	63.8	89	1.36	0.99	476	535	4.6	26.5
MW-9 DUP	10/5/1999	NA	NA	NA	NA	NA	0.02	27	340	0.14	833	0.63	<0.05		490	<0.1	252	284	0.20	0.02	72	86	1.46	0.94	478	560	5.0	5.6
MW-9	7/20/2009	17.8	8,381	4.75	109.1	6.7	0.03	17	290	0.26	3,100	<0.6	0.9		379	1.2				<0.01		117		0.31		1,600		19.0
MW-9	4/30/2010	12.0	8,042	0.79	86.4	6.7	0.015	2.1	247	NA	3,040	0.555	<0.05		263	<1.0				<0.05		102		0.15		1,680		8.72
MW-10	12/1/1998	14.5	4,100	0.40	-13.7	6.7	0.23	11	320	0.32	1,220	0.19	<0.05		270	0.2	310	305	1.95	0.76	54.6	85.5	2.30	2.07	584	645	13.4	13.2
MW-10	10/5/1999	14.2	4,775	0.07	-2.0	6.8	0.14	24	280	0.29	1,010	0.15	0.10		240	<0.1	39.8	254	0.73	0.04	9.94	102	0.99	1.12	33.2	635	18.8	10.1
MW-10	8/9/2001	12.2	5,033	0.17	249.1	6.6	0.018	10.0	334	0.16	1,700	0.08	<0.05		330	0.1	330		0.14		98.9	99.6	1.66		857	845	9.2	
MW-10	10/31/2001	14.4	3,990	0.15	90.9	6.7	0.20	3.6	336	0.12	2,800	0.17	<0.05		280	1.6			0.05		92.1		0.91		720		7.6	
MW-10	7/15/2009	13.2	9,579	8.7	79.6	6.6	0.36	33.0	330	0.27	4,260	<0.6	<0.6		276	0.8				0.08		103		2.63		1,950		21.1
MW-10 (DUP)	4/28/2010	11.0	3,741	0.35	16.2	6.88	0.14	4.3	263	NA	1,460	0.053	<1.0		168	<1.0				10.5		35.0		1.31		890		4.57
MW-11	12/1/1998	11.9	4,360	0.22	-271	7.6	0.01	17	275	0.58	188	0.17	<0.05		110	0.2	122	97.3	1.00	0.26	39.0	36.4	0.11	0.08	116	129	8.88	10.1
MW-11	10/5/1999	11.9	5,228	2.34	-231	7.7	0.05	20	270	0.76	192	0.05	<0.05		210	0.5	93.4	150	0.34	0.30	46.4	103	0.08	0.08	180	695	10.9	27
MW-11	8/8/2001	10.4	3,576	0.12	-73.6	7.4	<0.002	12.0	285	0.46	250	<0.05	<0.05		140	0.1	111		0.14		43.2		0.12		130		8.0	
MW-11	10/30/2001	12.0	4,126	0.04	-248.8	7.5	<0.002	3.1	265	0.46	230	<0.05	<0.05		110	2.8			0.02		38.7		0.41		120		9.1	
MW-11	10/24/2006	13.1	800	1.61	-106	7.3	0.008	1.9	341	0.12	108	0.16	<0.05		66	<0.1			0.80		30.7		0.08		85		7.6	
MW-11	11/28/2007	10.7	1390	0.38	-309	7.2	0.008	3.0	233	0.38	410	0.18	<0.05		144	1.0			0.74		42.1		0.08		235		12.3	
MW-11	11/4/2008	14.4	1,377	0.56	-200	7.3	0.005	2.38	249	0.28	200	<0.05	<0.05		101	0.2	95.6		0.38		38.8		0.08		134		8.4	
MW-11	7/16/2009	13.7	1,143	3.8	-15.2	7.3	0.019	16.00	260	0.45	246	<0.6	<0.6		112	2.0				0.11		41.3		0.11		138		11.4
MW-11	4/28/2010	9.2	1,145	0.46	-126.3	7.3	0.013	2.1	245	NA	325	0.109	<0.05		93.6	<1.0				2.55		44.3		0.220		152		8.94

Notes:
1. In general the field parameters were stable with very little variation. However, as noted, some readings varied.
2. Readings were collected using a low flow peristalic pump and water quailty meter with flow through cell..
3. Results shown for MW-10 are the higher of the results from the sample designated MW-10 or its duplicate sample (Delphi MW-DUP).
4. < - Indicates compound not detected above the specified detection limit.
5. Blank = Not tested.
6. NM = not measured

Table 1
Summary of Groundwater Field Measurements and Analytical Test Results for Natural Attenuation Parameters
April 2010 Groundwater Sampling
Delphi Thermal Systems
West Lockport Complex
Lockport, New York

		Field Parameters					Analytical Test Results - Inorganic and Miscellaneous Water Quality Parameters																				
Location	Sample Date	Temp. (Deg. C)	Specific Cond. (mS/cm)	DO (mg/l)	ORP (mv)	pH (Std Units)	Methane (mg/l)	Organic Carbon (mg/l)	Alkalinity (mg/l)	Ammonia (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrite (mg/l)	Nitrate Nitrite (mg/l)	Sulfate (mg/l)	Sulfide (mg/l)	Calcium (mg/l)	Dissolved Calcium (mg/l)	Iron (mg/l)	Dissolved Iron (mg/l)	Magnesium (mg/l)	Dissolved Magnesium (mg/l)	Manganese (mg/l)	Dissolved Manganese (mg/l)	Sodium (mg/l)	Dissolved Sodium (mg/l)	Potassium (mg/l)	Dissolved Potassium (mg/l)
MW-12	12/1/1998	13.4	2,006	0.39	-41	6.9	0.5	7	284	0.94	294	0.48	<0.05		73	0.2	119	104	7.48	4.01	26.8	25.3	4.41	4.40	183	197	4.1	3.81
MW-12	10/5/1999	15.8	1,849	0.10	-105.2	7.0	0.36	30	300	0.90	342	0.27	<0.05		66	0.2	104	126	<0.01	3.66	27.8	31.6	<0.01	4.90	166	226	4.9	5.3
MW-12	8/8/2001	13.5	3,300	0.24	-38.5	6.6	0.50	13.9	336	1.77	920	<0.05	<0.05		160	<0.1	217		16.9		57.5		8.41		427		6.3	
MW-12 DUP	8/8/2001	NA	NA	NA	NA	NA	0.74	14.9	338	1.85	930	<0.05	<0.05		160	<0.1	217		14.8		56.2		8.14		433		6.0	
MW-12	10/30/2001	14.2	2,850	0.14	-127.1	6.8	0.57	5.7	309	1.35	590	0.18	<0.05		110	3.5			4.73		37.0		4.69		342		5.0	
MW-12	10/25/2006	13.7	3,500	1.26	-127.1	6.9	0.024	6.5	333	1.55	1,300	<0.05	<0.05		110	<0.1			7.50		44.8		6.02		684		4.5	
MW-12	11/28/2007	11.2	3,307	0.18	-302	7.0	0.012	4.0	274	1.47	1,300	<0.05	<0.05		79	<0.04			6.68		46.0		4.44		666		3.9	
MW-12	11/4/2008	14.3	6,319	0.02	-88	6.7	0.12	2.74	332	2.08	2,000	<0.05	<0.05		138	<0.1	259		13.70		69.7		7.82		1110		5.6	
MW-12	3/16/2009	6.1	4,516	1.08	-48	6.6	0.87	NM	270	1.89	2,300	<0.05	<0.05		140	<0.1	269		11.50		81.7		8.60		1060		5.1	
MW-12	7/16/2009	14.5	6,493	7.32	-39.3	6.7	0.9	14	360	2.57	2,480	<0.6	<0.6		148	0.8				15.10		79.1		9.07		1,170		10.9
MW-12	4/28/2010	8.8	6,562	0.32	-46.1	6.6	0.46	5.0	315	NA	2,630	<0.05	0.039		153	<1.0				14.0		98.0		10.40		1,470		5.22
MW-13	8/8/2001	15.4	5,742	0.23	-118.5	7.8	0.08	15.2	255	1.45	1,900	0.05	<0.05		160	<0.1	209		2.59		49.6		2.67		1,200		12.1	
MW-13	10/29/2001	15.5	6,625	0.20	-136	7.4	0.07	9.9	426	1.29	1,700	0.61	0.08		120	2.2			3.75		40.9		2.96		1,160		8.2	
MW-13	10/24/2006	15.2	6,090	2.67	-146	7.3	0.16	8.4	431	1.35	2,200	<0.05	<0.05		98	<0.1			9.21		53.7		6.03		1,210		9.1	
MW-13	11/28/2007	12.7	5,696	0.08	-274	7.3	0.003	7.0	420	1.74	2,200	0.05	<0.05		95	0.4			7.83		50.8		4.95		1,250		9.6	
MW-13	11/5/2008	7.08	6,782	0.12	-97	7.1	0.021	3.8	410	1.57	2,000	<0.05	<0.5		91	<0.1	196		7.60		52.3		5.40		1,430		11.0	
MW-13	7/16/2009	16.0	6,476	6.94	-113.4	7.2	6.15	15	400	2.10	2,290	<0.6	<0.6		112	<0.5				1.75		53.9		6.51		1,390		18.9
MW-13	4/28/2010	9.4	5,783	0.28	-133.5	7.2	0.17	6.1	382	NA	2,280	0.069	<0.05		102	<1.0				9.12		59.9		7.18		1,380		11.2
MW-14	8/9/2001	11.5	2,064	3.66	330.7	7.2	<0.002	14.1	328	0.19	680	0.08	<0.05		130	<0.1	144		0.18		64.1		0.04		394		6.4	
MW-14	10/30/2001	13.2	2,478	0.80	-39.1	7.2	0.013	4.3	334	0.31	770	<0.05	<0.05		120	2.5			0.06		64.8		0.06		466		7.3	
MW-14	10/24/2006	12.9	4,310	3.11	-60.6	7.2	0.31	3.3	336	0.25	1,700	<0.05	<0.05		88	<0.1			0.15		94.9		0.20		831		8.0	
MW-14	11/29/2007	10.3	4,402	1.27	-110	7.1	0.16	4.0	371	0.53	1,800	<0.05	<0.05		87	0.12			0.44		111		0.25		777		10.5	
MW-14	11/4/2008	14.5	6,397	-0.13	11.2	6.8	0.14	2.4	340	0.39	2,100	<0.05	<0.05		80	<0.1	320		0.39		138		0.28		1010		13.5	
MW-14	2/24/2009	5.3	3,534	0.73	-34	7.2	0.15	NM	299	0.23	1,500	0.07	<0.05		68	<0.1	165		0.06		79.8		0.18		833		7.3	
MW-14	7/16/2009	11.6	5,970	21.58	72.6	6.8	0.465	51	380	0.69	2,430	<0.6	<0.6		81.4	1.2				0.11		132		0.53		931		21.1
MW-14	4/27/2010	9.8	3,726	0.32	16.8	7.1	0.055	2.7	354	NA	1,450	0.03	<0.05		65.7	<1.0				0.06		70.2		0.194		870		6.22
MW-15	8/8/2001	13.0	2011	0.20	289.1	6.7	<0.002	11.7	410	0.08	600	1.34	<0.05		160	0.1	281		2.33		70.4		0.46		204		4.9	
MW-15	10/30/2001	14.6	1656	0.16	83.9	6.8	<0.002	4.1	395	0.07	410	0.85	<0.05		110	1.4			0.02		47.5		0.40		196		3.8	
MW-15 DUP	10/30/2001	NA	NA	NA	NA	NA	<0.002	3.7	386	0.05	450	0.91	<0.05		110	1.5			0.03		47.6		0.39		198		4.0	
MW-15	10/24/2006	13.9	2,180	1.14	64.2	6.8	<0.002	3.6	434	0.09	660	1.89	<0.05		84	<0.1			<0.02		62.3		0.27		311		4.7	
MW-15	11/28/2007	11.7	3,085	3.16	-128	7.1	<0.002	2.0	346	1.03	1100	<0.05	<0.05		74	<0.04			0.14		71.7		0.39		455		4.9	
MW-15 DUP	11/4/2008	14.3	4,719	2.42	75	6.8	<0.002	1.77	345	0.07	1,900	0.34	<0.05		110	<0.1	327		<0.02		82.3		0.82		594		6.1	
MW-15	7/16/2009	14.6	3,349	17.13	135.7	6.8	<0.004	12	400	<0.1	1,130	1.7	<0.6		88.7	1.6				0.02		65.0		0.14		475		7.94
MW-15	4/28/2010	9.5	1,998	0.35	41.1	6.8	<0.22	3.3	419	NA	627	1.03	<0.02		66.0	<0.7				<0.019		48.2		0.13		318		3.14
TK-2	10/6/1999	13.3	702	0.19	66.9	7.5			380		20.2																	

Notes:
1. In general the field parameters were stable with very little variation. However, as noted, some readings varied.
2. Readings were collected using a low flow peristalic pump and water quailty meter with flow through cell..
3. Results shown for MW-10 are the higher of the results from the sample designated MW-10 or its duplicate sample (Delphi MW-DUP).
4. < - Indicates compound not detected above the specified detection limit.
5. Blank = Not tested.
6. NM = not measured

TABLE 2
CENTERLINE OF PLUME ANAEROBIC BIODEGRADTION SCREENING SUMMARY
APRIL 2010 GROUNDWATER SAMPLING
DELPHI HARRISON THERMAL SYSTEMS SITE
LOCKPORT, NEW YORK

Analysis	Concentration in Most Contaminated Zone	Value	Laboratory or Field Analysis Value (mg/L)	Score	Comments
DO	<0.5 mg/L	3	3.14	0	
DO	>5 mg/l	-3			
Nitrate	<1 mg/L	2	<0.05	2	
Iron II	>1 mg/l	2	0.41	0	
Sulfate	<20 mg/L	2	479	0	
Sulfide	>1 mg/L	3	<1.0	0	
Methane	<0.5 mg/L	0	0.057	0	
Methane	>0.5 mg/L	3			
ORP	<50 mV	1	-13.4	1	
ORP	<-100 mV	2			
pH	5< pH <9	0	7.2	0	
pH	5> pH >9	-2			
TOC	>20 mg/L	2	10.9	0	
Temp	> 20°C	1	15	0	
Carbon Dioxide	>2 times background	1			
Alkalinity	>2 times background	1	239	0	
Chloride	>2 times background	2	280	0	
Hydrogen	>1 nM	3			
Hydrogen	<1nM	0			
Volatile Fatty Acids	>0.1 mg/L	2			
BTEX	>0.1 mg/L	2			
PCE		0			
TCE	If Daughter Product	2			
DCE	If Daughter Product	2	55.2	2	
VC	If Daughter Product	2	9	2	
1,1,1-TCA		0			
DCA	If Daughter Product	2			
Carbon Tetrachloride		0			
Chloroethane	If Daughter Product	2			
Ethene/Ethane	>0.01 mg/L or	2			
	>0.1 mg/L	3			
Chloroform	If Daughter Product	2			
Dichloromethane	If Daughter Product	2			
			Total Score	**7**	

Scoring Interpretation	
0 to 5	Inadequate evidence for anaerobic biodegradation* of chlorinated organics
6 to 14	**Limited evidence for anaerobic biodegradation* of chlorinated organics**
15 to 20	Adequate evidence for anaerobic biodegradation* of chlorinated organics
>20	Strong evidence for anaerobic biodegradation* of chlorinated organics
*reductive dechlorination	
Values Taken from EPA Document **EPA/600/R-98/128,** *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*, 1998, Table 2.3 and Table 2.4	

TABLE 2 (CONT'D)
CENTERLINE OF PLUME ANAEROBIC BIODEGRADATION SCREENING SUMMARY
APRIL 2010 GROUNDWATER SAMPLING
DELPHI HARRISON THERMAL SYSTEMS SITE
LOCKPORT, NEW YORK

Analysis	Concentration in Most Contaminated Zone	Value	Laboratory or Field Analysis Value (mg/L)	Score	Comments
DO	<0.5 mg/L	3	0.96	0	
DO	>5 mg/l	-3			
Nitrate	<1 mg/L	2	<0.05	2	
Iron II	>1 mg/l	2	3.15	2	
Sulfate	<20 mg/L	2	272	0	
Sulfide	>1 mg/L	3	<1.0	0	
Methane	<0.5 mg/L	0	0.055		
Methane	>0.5 mg/L	3	1.8	3	
ORP	<50 mV	1	-2.1	1	
ORP	<-100 mV	2			
pH	5< pH <9	0	6.5	0	
pH	5> pH >9	-2			
TOC	>20 mg/L	2	4.3	0	
Temp	> 20°C	1	15	0	
Carbon Dioxide	>2 times background	1			
Alkalinity	>2 times background	1	333	0	
Chloride	>2 times background	2	3,510	2	>3 times baseline data set of 2001 (i.e., ~979 mg/L (arithmetic mean baseline concentration)
Hydrogen	>1 nM	3			
Hydrogen	<1nM	0			
Volatile Fatty Acids	>0.1 mg/L	2			
BTEX	>0.1 mg/L	2			
PCE		0			
TCE	If Daughter Product	2			
DCE	If Daughter Product	2	43.2	2	
VC	If Daughter Product	2	9.6	2	
1,1,1-TCA		0			
DCA	If Daughter Product	2			
Carbon Tetrachloride		0			
Chloroethane	If Daughter Product	2			
Ethene/Ethane	>0.01 mg/L or	2			
	>0.1 mg/L	3			
Chloroform	If Daughter Product	2			
Dichloromethane	If Daughter Product	2			
			Total Score	**14**	

Scoring Interpretation	
0 to 5	Inadequate evidence for anaerobic biodegradation* of chlorinated organics
6 to 14	**Limited evidence for anaerobic biodegradation* of chlorinated organics**
15 to 20	Adequate evidence for anaerobic biodegradation* of chlorinated organics
>20	Strong evidence for anaerobic biodegradation* of chlorinated organics

*reductive dechlorination

Values Taken from EPA Document **EPA/600/R-98/128,** *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*, 1998, Table 2.3 and Table 2.4

TABLE 2 (CONT'D)
CENTERLINE OF PLUME ANAEROBIC BIODEGRADATION SCREENING SUMMARY
APRIL 2010 GROUNDWATER SAMPLING
DELPHI HARRISON THERMAL SYSTEMS SITE
LOCKPORT, NEW YORK

Analysis	Concentration in Most Contaminated Zone	Value	Laboratory or Field Analysis Value (mg/L)	Score	Comments
DO	<0.5 mg/L	3	0.79	0	
DO	>5 mg/l	-3			
Nitrate	<1 mg/L	2	<0.05	2	
Iron II	>1 mg/l	2	<0.05	0	
Sulfate	<20 mg/L	2	263	0	
Sulfide	>1 mg/L	3	<1.0	0	
Methane	<0.5 mg/L	0	0.015	0	
Methane	>0.5 mg/L	3			
ORP	<50 mV	1	86.4	0	
ORP	<-100 mV	2			
pH	5< pH <9	0	6.7	0	
pH	5> pH >9	-2			
TOC	>20 mg/L	2	2.1	0	
Temp	> 20°C	1	12	0	
Carbon Dioxide	>2 times background	1			
Alkalinity	>2 times background	1	247		
Chloride	>2 times background	2	2,430	2	4 times baseline data (640 mg/L) concentration
Hydrogen	>1 nM	3			
Hydrogen	<1nM	0			
Volatile Fatty Acids	>0.1 mg/L	2			
BTEX	>0.1 mg/L	2			
PCE		0			
TCE	If Daughter Product	2			
DCE	If Daughter Product	2	1.1	2	
VC	If Daughter Product	2	0.031	2	
1,1,1-TCA		0			
DCA	If Daughter Product	2			
Carbon Tetrachloride		0			
Chloroethane	If Daughter Product	2			
Ethene/Ethane	>0.01 mg/L or	2			
	>0.1 mg/L	3			
Chloroform	If Daughter Product	2			
Dichloromethane	If Daughter Product	2			
			Total Score	**8**	
Scoring Interpretation					
0 to 5	Inadequate evidence for anaerobic biodegradation* of chlorinated organics				
6 to 14	**Limited evidence for anaerobic biodegradation* of chlorinated organics**				
15 to 20	Adequate evidence for anaerobic biodegradation* of chlorinated organics				
>20	Strong evidence for anaerobic biodegradation* of chlorinated organics				
*reductive dechlorination					
Values Taken from EPA Document **EPA/600/R-98/128,** *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*, 1998, Table 2.3 and Table 2.4					

TABLE 2 (CONT'D)
CENTERLINE OF PLUME ANAEROBIC BIODEGRADATION SCREENING SUMMARY
APRIL 2010 GROUNDWATER SAMPLING
DELPHI HARRISON THERMAL SYSTEMS SITE
LOCKPORT, NEW YORK

Analysis	Concentration in Most Contaminated Zone	Value	Laboratory or Field Analysis Value (mg/L)	Score	Comments
DO	<0.5 mg/L	3	0.32	3	
DO	>5 mg/l	-3			
Nitrate	<1 mg/L	2	<0.05	2	
Iron II	>1 mg/l	2	14	2	
Sulfate	<20 mg/L	2	153	0	
Sulfide	>1 mg/L	3	<1.0	3	
Methane	<0.5 mg/L	0			
Methane	>0.5 mg/L	3	0.5	3	Detected value rounded up
ORP	<50 mV	1	-46.1	1	
ORP	<-100 mV	2			
pH	5< pH <9	0	6.6	0	
pH	5> pH >9	-2			
TOC	>20 mg/L	2	5		
Temp	> 20°C	1	8.8	0	
Carbon Dioxide	>2 times background	1			
Alkalinity	>2 times background	1	315		
Chloride	>2 times background	2	2,630	2	8 times baseline concentration 294 mg/L
Hydrogen	>1 nM	3			
Hydrogen	<1nM	0			
Volatile Fatty Acids	>0.1 mg/L	2			
BTEX	>0.1 mg/L	2			
PCE		0			
TCE	If Daughter Product	2			
DCE	If Daughter Product	2	0.272	2	
VC	If Daughter Product	2	0.12	2	
1,1,1-TCA		0			
DCA	If Daughter Product	2			
Carbon Tetrachloride		0			
Chloroethane	If Daughter Product	2			
Ethene/Ethane	>0.01 mg/L or	2			
	>0.1 mg/L	3			
Chloroform	If Daughter Product	2			
Dichloromethane	If Daughter Product	2			
			Total Score	**20**	

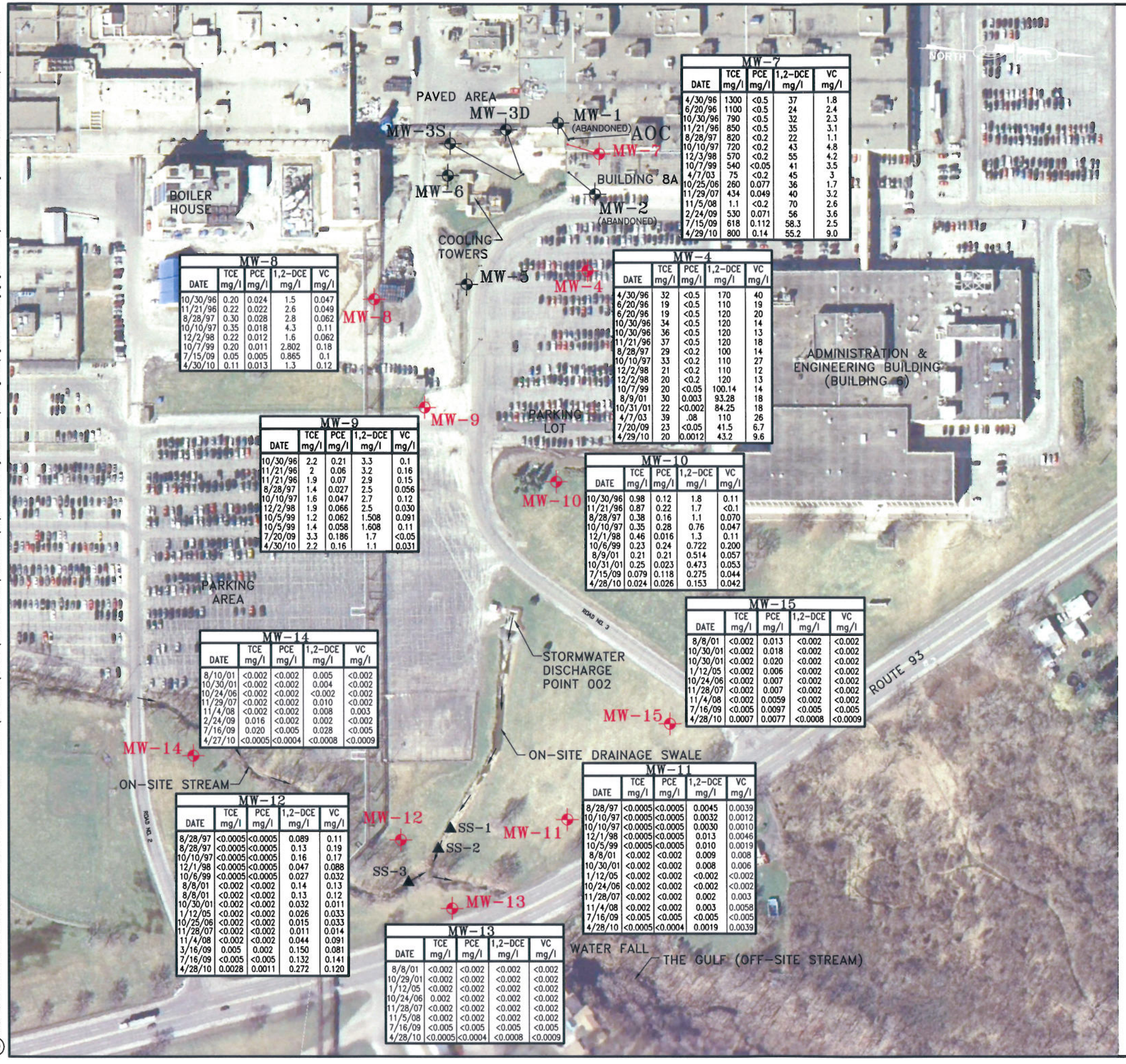
Scoring Interpretation	
0 to 5	Inadequate evidence for anaerobic biodegradation* of chlorinated organics
6 to 14	Limited evidence for anaerobic biodegradation* of chlorinated organics
15 to 20	**Adequate evidence for anaerobic biodegradation* of chlorinated organics**
>20	Strong evidence for anaerobic biodegradation* of chlorinated organics
*reductive dechlorination	
Values Taken from EPA Document **EPA/600/R-98/128,** *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*, 1998, Table 2.3 and Table 2.4	

TABLE 3
MW-14 ANAEROBIC BIODEGRADATION SCREENING SUMMARY
APRIL 2010 GROUNDWATER SAMPLING
DELPHI THERMAL SYSTEMS SITE
LOCKPORT, NEW YORK

Analysis	Concentration in Most Contaminated Zone	Value	Laboratory or Field Analysis Value (mg/L)	Score	Comments
DO	<0.5 mg/L	3	21.6	0	
DO	>5 mg/l	-3			
Nitrate	<1 mg/L	2	<0.6	2	
Iron II	>1 mg/l	2			
Sulfate	<20 mg/L	2	81.4	0	
Sulfide	>1 mg/L	3	1.2	3	
Methane	<0.5 mg/L	0			
Methane	>0.5 mg/L	3	0.5	3	Detected value rounded up
ORP	<50 mV	1	73	0	
ORP	<-100 mV	2			
pH	5< pH <9	0	6.8	0	
pH	5> pH >9	-2			
TOC	>20 mg/L	2	51	2	
Temp	> 20°C	1	11.6	0	
Carbon Dioxide	>2 times background	1			
Alkalinity	>2 times background	1	380		
Chloride	>2 times background	2	2,430	2	3 times baseline data set of 2001 (*i.e.*, ~725 mg/L (arithmetic mean baseline concentration)
Hydrogen	>1 nM	3			
Hydrogen	<1nM	0			
Volatile Fatty Acids	>0.1 mg/L	2			
BTEX	>0.1 mg/L	2			
PCE		0			
TCE	If Daughter Product	2			
DCE	If Daughter Product	2	0.028	2	
VC	If Daughter Product	2	See comment	2	Detected above analytical reporting limits for nearly all sampling rounds at nearby wells MW-11 and MW-12 and other monitoring wells located at the site. Also, VC has previously been detected at this well
1,1,1-TCA		0			
DCA	If Daughter Product	2			
Carbon Tetrachloride		0			
Chloroethane	If Daughter Product	2			
Ethene/Ethane	>0.01 mg/L or	2			
	>0.1 mg/L	3			
Chloroform	If Daughter Product	2			
Dichloromethane	If Daughter Product	2			
			Total Score	**16**	

Scoring Interpretation	
0 to 5	Inadequate evidence for anaerobic biodegradation* of chlorinated organics
6 to 14	Limited evidence for anaerobic biodegradation* of chlorinated organics
15 to 20	**Adequate evidence for anaerobic biodegradation* of chlorinated organics**
>20	Strong evidence for anaerobic biodegradation* of chlorinated organics
*reductive dechlorination	
Values Taken from EPA Document **EPA/600/R-98/128,** *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Ground Water*, 1998, Table 2.3 and Table 2.4	

FIGURES



MW-7

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
4/30/96	1300	<0.5	37	1.8
6/20/96	1100	<0.5	24	2.4
10/30/96	790	<0.5	32	2.3
11/21/96	850	<0.5	35	3.1
8/28/97	820	<0.2	22	1.1
10/10/97	720	<0.2	43	4.8
12/3/98	570	<0.2	55	4.2
10/7/99	540	<0.05	41	3.5
4/7/03	75	<0.2	45	3
10/25/06	260	0.077	36	1.7
11/29/07	434	0.049	40	3.2
11/5/08	1.1	<0.2	70	2.6
2/24/09	530	0.071	56	3.6
7/15/09	618	0.112	58.3	2.5
4/29/10	800	0.14	55.2	9.0

MW-8

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
10/30/96	0.20	0.024	1.5	0.047
11/21/96	0.22	0.022	2.6	0.049
8/28/97	0.30	0.028	2.8	0.062
10/10/97	0.35	0.018	4.3	0.11
12/2/98	0.22	0.012	1.6	0.062
10/7/99	0.20	0.011	2.802	0.18
7/15/09	0.05	0.005	0.865	0.1
4/30/10	0.11	0.013	1.3	0.12

MW-4

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
4/30/96	32	<0.5	170	40
6/20/96	19	<0.5	110	19
6/20/96	19	<0.5	120	20
10/30/96	34	<0.5	120	14
10/30/96	36	<0.5	120	13
11/21/96	37	<0.5	120	18
8/28/97	29	<0.2	100	14
10/10/97	33	<0.2	110	27
12/2/98	21	<0.2	110	12
12/2/98	20	<0.2	120	13
10/7/99	20	<0.05	100.14	14
8/9/01	30	0.003	93.28	18
10/31/01	22	<0.002	84.25	18
4/7/03	39	.08	110	26
7/20/09	23	<0.05	41.5	6.7
4/29/10	20	0.0012	43.2	9.6

MW-9

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
10/30/96	2.2	0.21	3.3	0.1
11/21/96	2	0.06	3.2	0.16
11/21/96	1.9	0.07	2.9	0.15
8/28/97	1.4	0.027	2.5	0.056
10/10/97	1.6	0.047	2.7	0.12
12/2/98	1.9	0.066	2.5	0.030
10/5/99	1.2	0.062	1.508	0.091
10/5/99	1.4	0.058	1.608	0.11
7/20/09	3.3	0.186	1.7	<0.05
4/30/10	2.2	0.16	1.1	0.031

MW-10

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
10/30/96	0.98	0.12	1.8	0.11
11/21/96	0.87	0.22	1.7	<0.1
8/28/97	0.38	0.16	1.1	0.070
10/10/97	0.35	0.28	0.76	0.047
12/1/98	0.46	0.016	1.3	0.11
10/6/99	0.23	0.24	0.722	0.200
8/9/01	0.21	0.21	0.514	0.057
10/31/01	0.25	0.023	0.473	0.053
7/15/09	0.079	0.118	0.275	0.044
4/28/10	0.024	0.026	0.153	0.042

MW-15

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/8/01	<0.002	0.013	<0.002	<0.002
10/30/01	<0.002	0.018	<0.002	<0.002
10/30/01	<0.002	0.020	<0.002	<0.002
1/12/05	<0.002	0.006	<0.002	<0.002
10/24/06	<0.002	0.007	<0.002	<0.002
11/28/07	<0.002	0.007	<0.002	<0.002
11/4/08	<0.002	0.0059	<0.002	<0.002
7/16/09	<0.005	0.0097	<0.005	<0.005
4/28/10	0.0007	0.0077	<0.0008	<0.0009

MW-14

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/10/01	<0.002	<0.002	0.005	<0.002
10/30/01	<0.002	<0.002	0.004	<0.002
10/24/06	<0.002	<0.002	<0.002	<0.002
11/29/07	<0.002	<0.002	0.010	<0.002
11/4/08	<0.002	<0.002	0.008	0.003
2/24/09	0.016	<0.002	0.002	<0.002
7/16/09	0.020	<0.005	0.028	<0.005
4/27/10	<0.0005	<0.0004	<0.0008	<0.0009

MW-11

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/28/97	<0.0005	<0.0005	0.0045	0.0039
10/10/97	<0.0005	<0.0005	0.0032	0.0012
10/10/97	<0.0005	<0.0005	0.0030	0.0010
12/1/98	<0.0005	<0.0005	0.013	0.0046
10/5/99	<0.0005	<0.0005	0.010	0.0019
8/8/01	<0.002	<0.002	0.009	0.008
10/30/01	<0.002	<0.002	0.008	0.006
1/12/05	<0.002	<0.002	<0.002	<0.002
10/24/06	<0.002	<0.002	<0.002	<0.002
11/28/07	<0.002	<0.002	0.002	0.003
11/4/08	<0.002	<0.002	0.003	0.0058
7/16/09	<0.005	<0.005	<0.005	<0.005
4/28/10	<0.0005	<0.0004	0.0019	0.0039

MW-12

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/28/97	<0.0005	<0.0005	0.089	0.11
8/28/97	<0.0005	<0.0005	0.13	0.19
10/10/97	<0.0005	<0.0005	0.16	0.17
12/1/98	<0.0005	<0.0005	0.047	0.088
10/6/99	<0.0005	<0.0005	0.027	0.032
8/8/01	<0.002	<0.002	0.14	0.13
8/8/01	<0.002	<0.002	0.13	0.12
10/30/01	<0.002	<0.002	0.032	0.011
1/12/05	<0.002	<0.002	0.026	0.033
10/25/06	<0.002	<0.002	0.015	0.033
11/28/07	<0.002	<0.002	0.011	0.014
11/4/08	<0.002	<0.002	0.044	0.091
3/16/09	0.005	0.002	0.150	0.081
7/16/09	<0.005	<0.005	0.132	0.141
4/28/10	0.0028	0.0011	0.272	0.120

MW-13

DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l	VC mg/l
8/8/01	<0.002	<0.002	<0.002	<0.002
10/29/01	<0.002	<0.002	<0.002	<0.002
1/12/05	<0.002	<0.002	<0.002	<0.002
10/24/06	0.002	<0.002	<0.002	<0.002
11/28/07	<0.002	<0.002	<0.002	<0.002
11/5/08	<0.002	<0.002	<0.002	<0.002
7/16/09	<0.005	<0.005	<0.005	<0.005
4/28/10	<0.0005	<0.0004	<0.0008	<0.0009

NOTES:

1. BASE MAP ADAPTED FROM A 2005 AERIAL PHOTOGRAPH DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/interactive_main.html AND SITE OBSERVATIONS.

2. ANALYTICAL TESTING WAS COMPLETED BY FREE-COL LABORATORIES, INC.

3. UNITS ARE LISTED IN MILLIGRAMS PER LITER (mg/l). (< - INDICATES COMPOUND NOT DETECTED ABOVE THE SPECIFIED DETECTION LIMIT)

4. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

MW-8 — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELL INSTALLED BY GZA

▲SS-1 — APPROXIMATE LOCATION AND DESIGNATION OF STREAM WATER SAMPLE

AOC — DENOTES AREA OF CONCERN

TCE = TRICHLOROETHENE

PCE = TETRACHLOROETHENE

1,2-DCE = TRANS & CIS 1,2-DICHLOROETHENE

VC = VINYL CHLORIDE

DRAWN BY: DEW

DATE: JUNE 2010

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

0 90 180 360

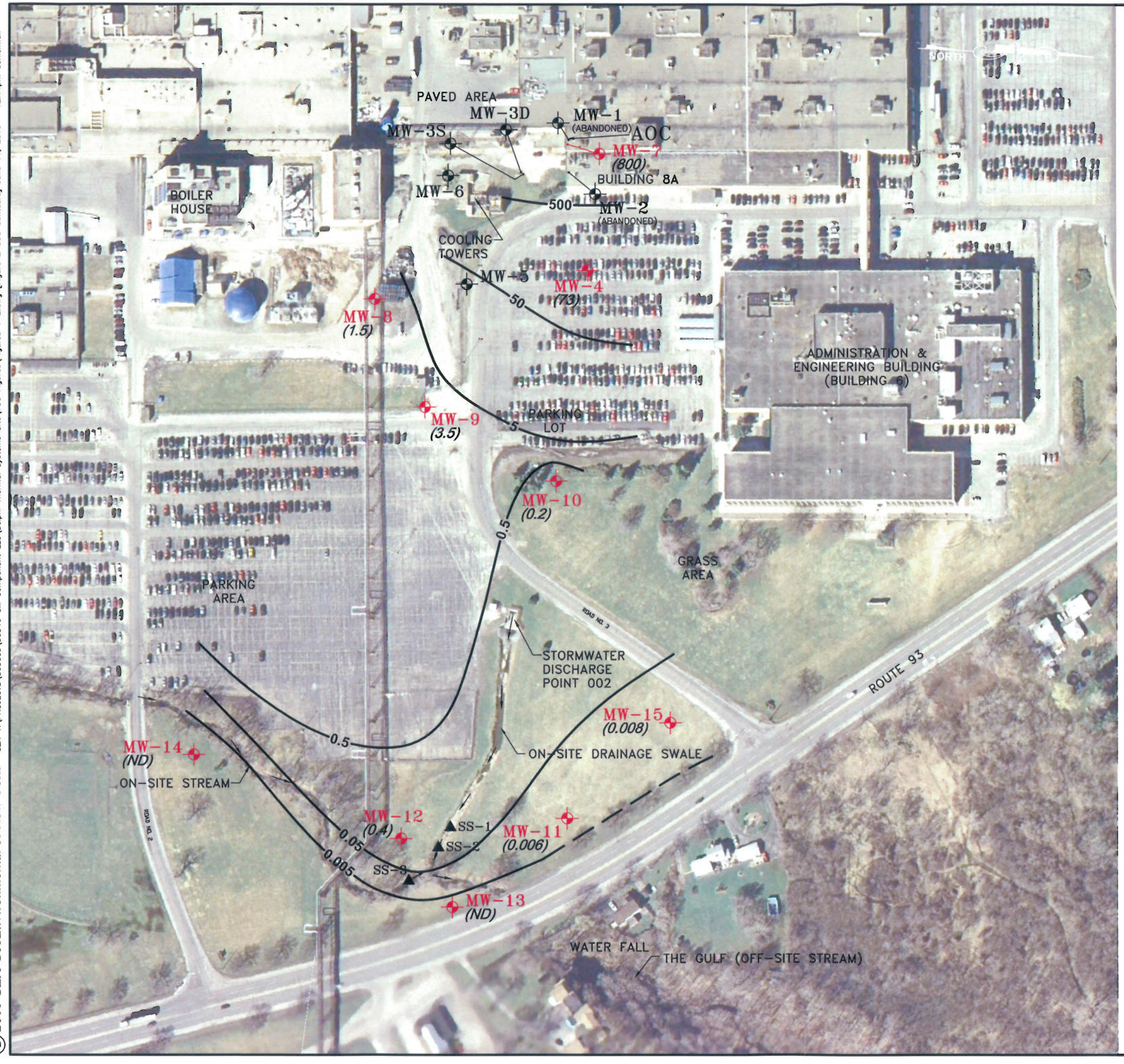
GM COMPONENTS HOLDINGS, LLC
DELPHI HARRISON THERMAL SYSTEMS SITE
200 UPPER MOUNTAIN ROAD
LOCKPORT, NEW YORK
APRIL 2010 SAMPLING

GROUNDWATER ANALYTICAL TEST RESULTS FOR TARGET CHLORINATED COMPOUNDS

PROJECT No.
21.0056546.00

FIGURE No.
1

GZA-T:\PROJECTS\56500s\56546 GM Component LLC\Delphi Thermal Systems Site\VOC Figures\Figures 1-2.dwg [Figure 1 Analytical Results] June 11, 2010 - 12:13pm daniel.wulf



NOTES:

1. BASE MAP ADAPTED FROM A 2005 AERIAL PHOTOGRAPH DOWNLOADED FROM http://www.nysgis.state.ny.us/gateway/mg/interactive_main.html AND SITE OBSERVATIONS.

2. ANALYTICAL TESTING WAS COMPLETED BY FREE-COL LABORATORIES, INC.

3. UNITS ARE LISTED IN MILLIGRAMS PER LITER (mg/l). (< - INDICATES COMPOUND NOT DETECTED ABOVE THE SPECIFIED DETECTION LIMIT)

4. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

- 50 — APPROXIMATE LOCATION AND CONCENTRATION OF TOTAL VOC CONTOUR
- MW-4 (73) — APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELL INSTALLED BY GZA SHOWN WITH TOTAL VOC CONCENTRATION
- ▲SS-1 — APPROXIMATE LOCATION AND DESIGNATION OF STREAM WATER SAMPLE
- AOC — DENOTES AREA OF CONCERN

TCE = TRICHLOROETHENE

PCE = TETRACHLOROETHENE

1,2-DCE = TRANS & CIS 1,2-DICHLOROETHENE

VC = VINYL CHLORIDE

DRAWN BY: DEW

DATE: JUNE 2010

GZA GeoEnvironmental of New York

APPROXIMATE SCALE IN FEET

0 90 180 360

GM COMPONENTS HOLDINGS, LLC

DELPHI HARRISON THERMAL SYSTEMS SITE

200 UPPER MOUNTAIN ROAD

LOCKPORT, NEW YORK

APRIL 2010 SAMPLING

TOTAL COC CONTOUR MAP

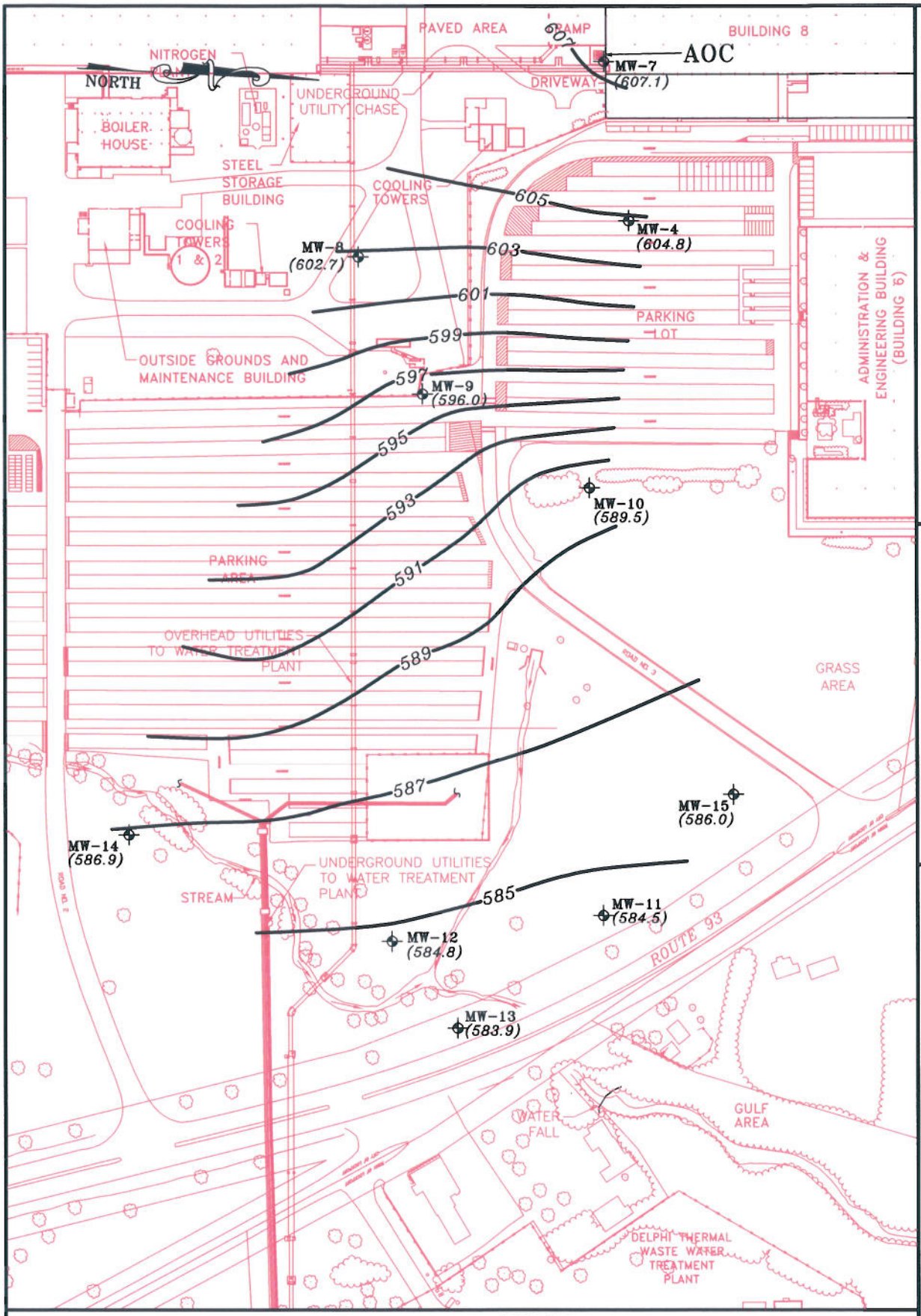
PROJECT No.

21.0056546.00

FIGURE No.

2

GZA-T:\PROJECTS\56500s\56546 GM Component LLC\Delphi Thermal Systems Site\VOC Figures\Figures 1-2.dwg [Figure 2 COC Contours] June 11, 2010 - 12:14pm daniel.wulf



LEGEND:

MW-3S (604.7) — APPROXIMATE LOCATION AND DESIGNATION OF EXISTING MONITORING WELL INSTALLED BY GZA

APPROXIMATE GROUNDWATER ELEVATION MEASURED ON OCTOBER 29, 2001

AOC DENOTES AREA OF CONCERN

NOTES:

1. BASE MAP ADAPTED FROM AN AUTOCAD FILE PROVIDED BY DELPHI HARRISON THERMAL SYSTEMS.

2. WATER LEVEL READINGS HAVE BEEN MADE IN WELLS AT TIMES AND UNDER CONDITIONS PRESENTED IN THE REPORT. FLUCTUATIONS IN GROUNDWATER ELEVATIONS MAY occur DUE TO VARIATIONS IN RAINFALL, BAROMETRIC PRESSURE, AND OTHER FACTORS.

DRAWN BY: DEW

DATE: JUNE 2010

GZA GeoEnvironmental of New York

SCALE IN FEET

0 100 200 400

GM COMPONENTS HOLDINGS, LLC

DELPHI HARRISON THERMAL SYSTEMS SITE

200 UPPER MOUNTAIN ROAD

LOCKPORT, NEW YORK

OPERATION, MANAGEMENT & MONITORING PLAN

GROUNDWATER CONTOUR PLAN

(APRIL 27, 2010)

PROJECT No.

21.0056546.00

FIGURE No.

3

GZA-T:\PROJECTS\56500s\56546 GM Component LLC\Delphi Thermal Systems Site\VOC Figures\FIGURE 3 GW CONTOURS.dwg [FIGURE 3] June 11, 2010 - 12:11pm daniel.wulf

APPENDIX A

MONITORING WELL OBSERVATION & GROUNDWATER SAMPLING LOGS

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME GM Components Holding (GMCH) PROJECT NO. 21.0056546.00

SAMPLING CREW MEMBERS Jennifer Davide SUPERVISOR Chris Boroa

DATE OF SAMPLE COLLECTION 4/27/10 → 4/30/10

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp. C°	Field Cond. mS/cm	Time	Sample Description & Analysis
MW-4	MW-4	613.07	34.9	8.3	604.77	3.87		5.5	6.47	14.98	9.644	4/29 14:30	
MW-7	MW-7	613.86	28.91	6.79	607.07	3.54		5.5	7.24	14.98	1.540	4/29 15:30	
MW-8	MW-8	608.97	18.62	6.28	602.69	1.97		3.25	6.94	12.84	2.206	4/30 12:30	
MW-9	MW-9	604.90	17.10	8.95	595.95	1.30		2.75	6.73	11.97	8.042	4/30 10:30	
MW-10 DUP	MW-10	604.70	23.82	15.21	589.49	1.37		2.20	6.88	11.03	3.741	4/28 17:00	
MW-11	MW-11	590.10	25.1	5.60	584.50	3.12		4.50	7.28	9.15	1.145	4/28 13:30	
MW-12	MW-12	590.71	16.31	5.93	584.78	1.60		3.5	6.64	8.78	6.582	4/28 10:30	
MW-13	MW-13	589.02	14.05	5.14	583.88	1.57		3.5	7.23	9.37	5.783	4/28 12:30	

Additional Comments:

Copies to:

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

SAMPLE COLLECTION DATA SHEET - GROUNDWATER SAMPLING PROGRAM

PROJECT NAME GM Components Holding (GMCH) PROJECT NO. 21.0057654.00

SAMPLING CREW MEMBERS Jennifer Davide SUPERVISOR Chris Brown

DATE OF SAMPLE COLLECTION 4/27/10 → 4/30/10

[Note: For 2" dia. well, 1 ft. = 0.14 gal (imp) or 0.16 gal (us)]

Sample I.D. Number	Well No.	Measuring Point Elev. (ft. AMSL)	Bottom Depth (ft. btoc)	Water Depth (ft. btoc)	Water Elevation (ft. AMSL)	Well Volume (gallons)	Bailer Volume No. Bails	Volume Purged (gallons)	Field pH	Field Temp.	Field Cond.	Time	Sample Description & Analysis
MW-14	MW-14	592.77	21.33	5.8	586.97	2.48		3.6	7.09	9.76	3.726	4/27 11:30	
MW-15	MW-15	594.04	16.84	8.0	586.04	1.58		3.5	6.78	9.54	1.998	4/28 17:00	
MW-DUP	MW-10	604.70	23.82	15.21	589.49	1.37		2.2	6.83	11.08	3.74	4/23 1700	

Additional Comments:

Copies to:

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/29/10
Personnel: Jen Davids

Monitoring Well Data:

Well No.: MW-4 1 of 2
Measurement Point: Top of Riser
Constructed Well Depth (ft): 32.5
Measured Well Depth (ft): 34.90
Depth of Sediment (ft): NA

Screen Length (ft): 17.5 - 32.5 (15ft)
Depth to Pump Intake (ft)[1]: 25 ft
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 26.6 x .16 = 4.25 (Gal)
Initial Depth to Water (ft): 8.30

Time	Pumping Rate (mL/min) (Gal/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
12:07		9.51	1.21	6.3	13.39	9.271	76.3	1.69	-0.5	0	0
12:12	.16	10.55	2.25	6.51	13.37	9.301	77.5	1.59	-1.2	0.80 (Gal)	
12:17	.10	10.56	2.26	6.51	13.63	9.344	75.9	1.43	1.5	1 (Gal)	
12:22	.09	10.57	2.27	6.51	13.62	9.321	69.2	1.25	2.3	1.3 (Gal)	
12:27	.08	10.58	2.28	6.48	13.61	9.338	47.1	1.2	3.6	1.6 (Gal)	
12:32	.08	10.58	2.28	6.49	13.81	9.423	20.1	1.10	4.8	1.9 (Gal)	
12:37	.09	10.58	2.28	6.46	14.13	9.540	9.6	1.08	4.1	2.2 (Gal)	
12:42	.08	10.58	2.28	6.48	14.09	9.515	1.6	1.05	4.1	2.5 (Gal)	
12:47		10.58	2.28	6.45	14.04	9.517	0.0	1.03	4.0	2.6 (Gal)	
12:52		10.58	2.28	6.46	14.10	9.523	-2.1	1.00	4.7	2.7 (Gal)	
12:57		10.58	2.28	6.46	14.15	9.529	-2.9	0.98	4.4	2.8 (Gal)	
1:02		10.58	2.28	6.46	14.23	9.534	-3.9	0.97	5.2	3 (Gal)	
1.07	↓	10:58	2.28	6.47	14.32	9.529	-5.4	0.95	7.5	3.25 (Gal)	

Slow pump →

clear

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p^*(D/2)^{2*}(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GM CH
Ref. No.:

Date: 4/29/10
Personnel: J. Daviola

Monitoring Well Data:

Well No.: MW-4 pg2
Measurement Point: TOR
Constructed Well Depth (ft): 32.5
Measured Well Depth (ft): 34.9
Depth of Sediment (ft): -

Screen Length (ft): 15
Depth to Pump Intake (ft)[1]: 25
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 24.2 x .16 = 3.87 Gallons
Initial Depth to Water (ft): 8.30

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1:12	.08	10.58	2.28	6.47	14.31	9.521	-4.1	0.95	4.5	3.5	
1:17		10.58		6.47	14.45	9.595	-4.1	0.93	4.3	3.75	
1:22		10.58		6.46	14.58	9.647	-3.8	0.90	-1.3	4 Gallons	
1:27		10.58		6.47	14.89	9.683	-4.3	0.93	-1.2	4.25 Gal	1 Vol
1:32		10.58		6.47	14.34	9.667	-3.0	0.95	0.6	4.5	
1:37		10.58		6.46	14.79	9.636	-2.2	0.94	-0.9	4.75	
1:42		10.58		6.47	14.82	9.634	-1.4	0.93	-1.3	5	
1:47		10.58		6.46	14.99	9.672	-1.6	0.95	-1.4	5.25	
1:52	↓	10.58	↓	6.47	14.98	9.664	-2.1	0.96	-0.7	5.5 Gal	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 56546 - 00

SITE/PROJECT NAME: GMCM - TCE Area

WELL# MW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
042910	042911	14.3	55

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE X- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	611307 (m/ft)	GROUNDWATER ELEVATION	604707 (m/ft)
DEPTH TO WATER	8.30 (m/ft)	WELL DEPTH	32.50 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Clear - Good ODOR: None COLOR: Clear - Red Specs TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED 5-10 mph DIRECTION SW PRECIPITATION Y/N OUTLOOK Sunny 65°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/29/10 Scott Davick

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GM CH
Ref. No.:

Date: 4/29/10
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-7
Measurement Point: TOR
Constructed Well Depth (ft): 27.2
Measured Well Depth (ft): 28.91
Depth of Sediment (ft): -NA

Screen Length (ft): 12.2 - 27.2 = 15 ft
Depth to Pump Intake (ft)[1]: 22 ft
Well Diameter, D (in): 2 in
Well Screen Volume, V_s (mL)[2]: 22.12 x .16 = 3.54 Gal
Initial Depth to Water (ft): 6.79

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
10:15		9.13	2.34	7.31	13.58	1.755	63.5	1.02	2.4	0	0
10:20	.10	9.24	2.45	7.18	13.41	1.721	51.5	.49	1.7	1/2 Gal	
10:25	.08	11.13	4.34	7.17	13.25	1.696	44.6	.39	3.6	.75 Gal	
10:30	.08	12.62	5.83	7.16	13.18	1.685	34.7	0.34	4.6	1.25	
10:35	.09	13.95	7.16	7.17	13.07	1.611	-2.1	0.34	5.3	1.75	
10:40	.10	15.00	8.21	7.18	12.97	1.565	-17.9	.36	5.9	2.5 Gal	
10:45	.09	16.21	9.42	7.17	17.95	1.548	-37.1	.43	9.1	2.75	
10:50	.09	17.35	10.56	7.19	13.07	1.549	51.5	.47	16.3	3.2	
10:55	.09	18.43	12.14	7.18	13.18	1.558	-3.5	.32	24.4	3.75 Gal	1 Vol
11:00	.09	20.29	13.5	7.18	13.24	1.570	-29.5	.55	28.4	4.2 Gal	
11:05	.09	21.43	14.64	7.17	13.46	1.597	-36.6	.54	29.1	4.5 Gal	
11:10	.09	23.98	17.19	7.16	13.91	1.673	-49.7	.63	15.5	5.2 Gal	
11:15	.09	24.23	17.44	7.24	14.98	1.540	-13.4	3.14	15.1	5.5 Gal	DRY

Notes:
2:35 pm 13.43 (Sample) Recharge clear

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 565460-00

SITE/PROJECT NAME: GMCH

WELL# MW-7

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
042910	042910	3.5	5.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE X- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	613.86 (m/ft)	GROUNDWATER ELEVATION	607.07 (m/ft)
DEPTH TO WATER	6.79 (m/ft)	WELL DEPTH	27.70 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED 0-5mph DIRECTION SE PRECIPITATION Y/(N) OUTLOOK Sunny 60s

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
4/29/10	Jennifer Davids	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/30/10
Personnel: Ken Davide

Monitoring Well Data:

Well No.: MW-8
Measurement Point: TOR
Constructed Well Depth (ft): 16.3
Measured Well Depth (ft): 18.62
Depth of Sediment (ft): NA

Screen Length (ft): 11.3 - 16.3 = 5 ft
Depth to Pump Intake (ft)[1]: 13 ft
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 12.34 x 5 = 1.97 Gal
Initial Depth to Water (ft): 6.28

Time	*Pumping Rate (mL/min)* (Gal/min)	*Depth to Water (ft)*	*Drawdown from Initial Water Level*[3] *(ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, Vp (mL)*	*No. of Well Screen Volumes Purged*[4]
11:10		7.68	1.40	7.02	12.43	2.029	-68.4	1.79	-0.5	0	0
11:15	.10	7.75	1.47	6.95	12.20	1.922	-63.3	0.57	-1.0	1/2	
11:20	.10	7.75		6.95	12.41	1.923	-60.5	0.46	-1.8	1 Gal	
11:25	.08	7.75		6.95	12.52	1.974	-57.4	0.45	-1.8	1.25	
11:30	.08	7.75		6.95	12.64	2.046	-56	0.41	-1.7	1.5 Gal	
11:35	.07	7.75		6.95	12.5	2.101	-56.5	0.38	-1.5	1.75	
11:40	.06	7.75		6.95	12.49	2.125	-56	0.36	-1.5	2 Gal	1 Vol
11:45	.06	7.75		6.94	12.44	2.146	-57.7	0.35	-1.3	2.25	
11:50	.06	7.75		6.95	12.62	2.173	-58	0.36	-1.4	2.5	
11:55	.06	7.75		6.95	12.45	2.251	-59.2	0.37	-0.7	2.75	
12:00	.06	7.75		6.94	12.35	2.195	-59.3	0.38	-0.5	3 Gal	
12:05	.06	7.75		6.94	12.34	2.206	-58.6	0.36	-0.2	3.25	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 56546 - 00

SITE/PROJECT NAME: GMCH

WELL# MW-18

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
043010	043010	20	33

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE	E	C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [ ] A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	608.97 (m/ft)	GROUNDWATER ELEVATION	602.69 (m/ft)
DEPTH TO WATER	6.28 (m/ft)	WELL DEPTH	16.30 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: clear TURBIDITY: clear

WEATHER CONDITIONS: WIND SPEED 10 mph DIRECTION SE PRECIPITATION Y/N (N) OUTLOOK Sunny 70°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/30/10 Jennifer Davide

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/30/10
Personnel: Jen Davide

Monitoring Well Data:

Well No.: MW-9
Measurement Point: TOR
Constructed Well Depth (ft): 15.42 (+2 ft stick-up)
Measured Well Depth (ft): 17.10
Depth of Sediment (ft): NA

Screen Length (ft): 10-15 (5 ft)
Depth to Pump Intake (ft)[1]: 13 ft
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 8.15 x .16 = 1.30 Gal
Initial Depth to Water (ft): 8.95

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
9:35		9.71	.76	6.93	11.84	7.543	79.5	2.15	5.8	0	0
9:40	.06	9.72	.77	6.83	11.81	7.503	78.3	1.68	4.8	.30 Gal	
9:45	.08	9.72		6.80	11.73	7.622	79.8	1.46	4.5	.75 Gal	
9:50	.07	9.72		6.77	11.77	7.718	81.7	1.26	4.3	1 Gal	
9:55	.06	9.72		6.76	11.72	7.805	82.6	1.08	4.2	1.25	
10:00	.06	9.72		6.76	11.55	7.830	83.5	1.03	4.2	1.5	1 Vol
10:05	.06	9.72		6.75	11.69	7.900	84.3	0.92	4.1	1.75	
10:10	.06	9.72		6.74	11.79	7.973	85.5	0.87	4.3	2 Gal	
10:15	.06	9.72		6.73	11.93	8.017	86	0.80	4.2	2.5	
10:20	.06	9.72	↓	6.73	11.97	8.042	86.4	0.79	4.1	2.75	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 56546-00

SITE/PROJECT NAME: GMCH

WELL# MW-9

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
043010	043010	13	28

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE x- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	6049.0 (m/ft)	GROUNDWATER ELEVATION	5945.5 (m/ft)
DEPTH TO WATER	3.95 (m/ft)	WELL DEPTH	15.42+2 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED 10 mph DIRECTION SE PRECIPITATION Y/(N) OUTLOOK Sunny 70

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
4/30/10	Jennifer Daniels	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/28/10
Personnel: J. Davide

Monitoring Well Data:

Well No.: MW-10 DUP
Measurement Point: TOR
Constructed Well Depth (ft): 21.3
Measured Well Depth (ft): 23.82
Depth of Sediment (ft): NA

Screen Length (ft): 12.5 - 21.3 = 8.8
Depth to Pump Intake (ft)[1]: 16 ft
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 8.61 x .16 = 1.37 Gal
Initial Depth to Water (ft): 15.21

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
3:50		15.63	.42	6.34	12.19	1.311	47.5	4.83	21.9	0	0
3:55	.04	15.63		6.88	12.09	1.651	30.2	6.32	16.6	.2 Gal	
4:00	.05	15.63		6.90	12.01	2.056	23.5	6.46	14.1	½ Gal	
4:05	.05	15.63		6.86	11.41	2.604	24.9	4.47	39	.75 Gal	
4:10	.05	15.63		6.85	11.32	2.990	26	3.95	26.3	1 Gal	
4:15	.05	15.63		6.84	11.10	3.515	24.5	2.08	8.1	1.2 Gal	
4:20	.05	15.63		6.85	11.05	3.626	21.6	1.2	11.2	1.5 Gal	1 Vol
4:25	.05	15.63		6.87	11.11	3.682	18.2	.42	2.5	1.8 Gal	
4:30	.05	15.63		6.88	11.06	3.728	16.4	.36	17.8	2 Gal	
4:35	.05	15.63	↓	6.88	11.03	3.741	16.2	.35	13.1	2.2 Gal	

Notes: Clear to yellowish to clear

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 56546-00

SITE/PROJECT NAME: GMCH

WELL# MW-10 DUP

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
042810	042810	1.4	3.2

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y N (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED Y N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	F	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [ ] A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	6047.10 (m/ft)	GROUNDWATER ELEVATION	5894.9 (m/ft)
DEPTH TO WATER	15.21 (m/ft)	WELL DEPTH	21.30 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Grazel ODOR: None COLOR: yellow/clear TURBIDITY: cleared up

WEATHER CONDITIONS: WIND SPEED 15 mph DIRECTION SE PRECIPITATION Y/N OUTLOOK Sunny 60°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
4/28/10	Jennifer Davide	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/28/10
Personnel: Jen Davide

Monitoring Well Data:

Well No.: MW-11 1 of 2
Measurement Point: TOC
Constructed Well Depth (ft): 24.1
Measured Well Depth (ft): 25.10
Depth of Sediment (ft): NA

Screen Length (ft): 9-21.4 (15.1ft)
Depth to Pump Intake (ft)[1]: 18
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 14.5 x .16 = 3/2 Gal
Initial Depth to Water (ft): 5.60

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
12:20		6.99	1.39	7.31	9.16	1.025	-19	4.96	8.7	0	0
12:25	.15	8.14	2.54	7.46	8.35	1.395	-10.2	1.15	8.2	.75	
12:30	.09	7.87	2.27	7.47	9.01	.967	-7.9	1.19	10.1	.90	
12:35	.08	7.87		7.47	9.06	.972	-24.6	1.14	9.5	1.20	
12:40	.08	7.87		7.41	9.06	1.004	-27.8	0.99	9.5	1.5 Gal	
12:45	.07	7.87		7.43	9.05	1.008	-27.7	.96	9.2	1.80 Gal	
12:50	.07	7.87		7.37	8.99	1.020	-27.6	.87	8.9	2.10 Gal	
12:55	.07	7.87		7.35	8.96	1.027	-104.7	.82	8.5	2.4 Gal	
1:00	.07	7.87		7.34	9.07	1.033	-111.1	.76	8.3	2.7 Gal	
1:05	.07	7.87		7.34	9.09	1.054	-114.2	.68	7.9	3 Gal	
1:10	.07	7.87		7.31	9.12	1.071	-115.7	.62	7.7	3.3 Gal	1 Vol
1:15	.07	7.87		7.30	9.27	1.114	-118.9	.53	7.5	3.6	
1:20	.07	7.87	↓	7.29	9.22	1.125	-122.3	.50	7.3	3.9	

Notes: Lock broke off well

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/28/10
Personnel: Jen Davis

Monitoring Well Data:

Well No.: MW-11 2 of 2
Measurement Point: TOC
Constructed Well Depth (ft): 24.1
Measured Well Depth (ft): 25.1
Depth of Sediment (ft): NA

Screen Length (ft): 15.1 ft
Depth to Pump Intake (ft)[1]: 18
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 3.12 Gal
Initial Depth to Water (ft): 5.6

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1:25	.06	7.37	2.27	7.29	9.22	1.139	-125.6	0.48	7.4	4.2	
1:30	.06	7.37	2.27	7.28	9.15	1.145	-126.3	0.46	7.3	4.5 (mL)	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 56546-60

SITE/PROJECT NAME: Delphi

WELL# MW-11

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
042310	042810	3.1	4.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	591.10 (m/ft)	GROUNDWATER ELEVATION	584.50 (m/ft)
DEPTH TO WATER	5.60 (m/ft)	WELL DEPTH	24.10 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Cleared

WEATHER CONDITIONS: WIND SPEED 15-20 mph DIRECTION SE PRECIPITATION Y/(N) OUTLOOK Sunny 60°

SPECIFIC COMMENTS

Well lock was bigger cut and metal hole to put lock on as well. Needs new well top + lock (closed)

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
4/28/10	Jennifer Davis	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Sample 10:30 4/28

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/28/10
Personnel: J Davies

Monitoring Well Data:

Well No.: MW-12
Measurement Point: TOR
Constructed Well Depth (ft): 15.1
Measured Well Depth (ft): 16.31
Depth of Sediment (ft): NA

Screen Length (ft): 8-15.1 = 7.1 ft
Depth to Pump Intake (ft)[1]: 11 ft
Well Diameter, D (in): 2 in
Well Screen Volume, V_s (mL)[2]: 10.38 x .16 = 1.6 Gal
Initial Depth to Water (ft): 5.93

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
9:50		6.21	.28	6.8	8.63	6.126	-31.8	1.93	36	0	0
9:55	.10	6.13	.20	6.64	8.56	6.491	-44.3	.46	19.2	1/2 Gal	
10:00	.10	6.13		6.64	8.61	6.542	-48	.37	15.1	1 Gal	
10:05	.10	6.13		6.65	8.72	6.563	-43.8	.35	6.4	1.5 Gal	
10:10	.10	6.13		6.67	8.67	6.554	-48.7	.34	5	2	1 Vol
10:15	.10	6.13		6.65	8.72	6.560	-48.7	.33	3.9	2.5	
10:20	.10	6.13		6.64	8.71	6.558	-48.4	.32	3.5	3	
10:25	.10	6.13	↓	6.64	8.78	6.562	-46.1	.32	2.6	3.5	

Yellow-Clear No Sheen or odor

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 565461-00

SITE/PROJECT NAME: GMCH

WELL# MW-12

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
042810	042810	16	35

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE X- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	591.11 (m/ft)	GROUNDWATER ELEVATION	584.78 (m/ft)
DEPTH TO WATER	5.93 (m/ft)	WELL DEPTH	15.10 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Yellow → Clear TURBIDITY: Cleared up

WEATHER CONDITIONS: WIND SPEED 15-20 mph DIRECTION SE PRECIPITATION Y/(N) OUTLOOK Sunny 50°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/28/10 Jennifer Daniels

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/28/10
Personnel: Jen Davoli

Monitoring Well Data:

Well No.: MW-13
Measurement Point: TOR
Constructed Well Depth (ft): 15 ft
Measured Well Depth (ft): 14.05
Depth of Sediment (ft): .95

Screen Length (ft): 8-15 = 7ft
Depth to Pump Intake (ft)[1]: 12 ft
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 9.86 x .16 = 1.57 Gal
Initial Depth to Water (ft): 5.14

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
11:40		5.53	.39	7.18	9.42	6.075	44	1.36	77.6	0	0
11:45	.10	5.47	.33	7.15	9.27	6.047	-34.3	0.36	46.1	.5 gal	
11:50	.10	5.47		7.17	9.32	6.025	-37.9	.37	20.9	1 gal	
11:55	.10	5.47		7.21	9.36	5.956	-115.1	.30	15.5	1.5 gal	1 Volume
12:00	.10	5.47		7.23	9.34	5.839	-129.6	.30	10.2	2 Gal	
12:05	.10	5.47		7.23	9.34	5.849	-133	.30	9.5	2.5 Gal	
12:10	.10	5.47		7.23	9.35	5.804	-133.4	.31	9.0	3 Gal	2 Volume
12:15	.10	5.47	↓	7.23	9.37	5.783	-133.4	.28	8.9	3.5 Gal	

Color: Yellow → clear.

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 56546-00

SITE/PROJECT NAME: GMCH

WELL# MW-13

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
042310	042310	1.6	3.5

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	x- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		x- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		x- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			x- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	x- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE x- (SPECIFY)			x- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	589.02 (m/ft)	GROUNDWATER ELEVATION	583.88 (m/ft)
DEPTH TO WATER	5.14 (m/ft)	WELL DEPTH	15.00 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Yellow->Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED 15 mph DIRECTION SE PRECIPITATION Y/(N) OUTLOOK Sunny/55°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/23/10 Jennifer Dwiek

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/27/10
Personnel: J Dandy

Monitoring Well Data:

Well No.: MW-14 1 of 2
Measurement Point: TOR
Constructed Well Depth (ft): 19.1
Measured Well Depth (ft): 21.33
Depth of Sediment (ft): NA

Screen Length (ft): 9.1-19.1 = 10ft
Depth to Pump Intake (ft)[1]: 16 ft.
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 1553 x .16 (2.48 gal per V)
Initial Depth to Water (ft): 5.80

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
9.50		7.5	1.7	6.92	9.04	4.360	348	1.63	9.9	0 gal	0
9.55	.04	8.49	2.69	7.16	8.99	3.444	37	.45	3.9	0.2 Gal	
10.00	.08	9.42	3.62	7.16	9.75	3.348	43.5	.40	-1.9	.75	
10.05	.07	9.6	3.8	7.16	9.18	3.414	38.3	.34	-1.9	1 Gal	
10.10	.06	9.59		7.16	9.23	3.533	62.7	.34	-1.9	1.25 Gal	
10.15	.06	9.59		7.14	9.26	3.706	+57.8	.33	-1.9	1.4 Gal	
10.20	.05	9.6		7.13	9.27	3.726	53.5	.31	-2.1	1.5 Gal	
10.25	.05	9.6		7.13	9.28	3.731	49.5	.31	-2	1.75 Gal	
10.30	.05	9.6		7.13	9.22	3.631	41.9	.30	-2.2	2 Gal	
10.35	.05	9.6		7.14	9.36	3.703	36.7	.30	-1.9	2.25	
10.40	.05	9.6		7.14	9.56	3.727	32.1	.30	-2.2	2.6	1 Vol
10.45	.05	9.6		7.14	9.85	3.775	22.1	.31	-2.3	2.75	
10.50	.05	9.6	↓	7.13	9.95	3.780	25.4	.31	-2.4	3 Gal	

Clear No Sheen or Odor

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/27/10
Personnel: Jon Davide

Monitoring Well Data:

Well No.: MW-14 2of2
Measurement Point: TOR
Constructed Well Depth (ft): 19.1
Measured Well Depth (ft): 21.33
Depth of Sediment (ft): NA

Screen Length (ft): 10'
Depth to Pump Intake (ft)[1]: 16
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 2.48
Initial Depth to Water (ft): 5.8

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
10:55	.05	9.6	3.8	7.14	9.97	3.38	24	.31	-2.3	3 (gal)	
11:00	.04	9.6		7.14	9.90	3.739	23.4	.31	-2	3.1 (gal)	
11:05	.04	9.6		7.14	9.86	3.747	20.6	.32	-2	3.25	
11:10	.04	9.6		7.11	9.75	3.725	17.9	.32	-1	3.4	
11:15	.04	9.6	↓	7.09	9.76	3.726	16.8	.32	-2	3.6	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 565446-00

SITE/PROJECT NAME: GMCH

WELL# MW-14

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
01 27 10	01 27 10	2.5	3.6

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	B	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	B	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	E	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	F - SILICONE G - COMBINATION TEFLON/POLYPROPYLENE	X- PURGING OTHER (SPECIFY)
SAMPLING DEVICE	E	C - ROPE x- (SPECIFY)			X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	5927.7 (m/ft)	GROUNDWATER ELEVATION	5816.97 (m/ft)
DEPTH TO WATER	5.80 (m/ft)	WELL DEPTH	21.33 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	ORP	DO	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(mV)	(mg/L)	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED 20 mph DIRECTION SE PRECIPITATION Y/N OUTLOOK Sunny 50°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

DATE	PRINT	SIGNATURE
1/27/10	Jennifer Davids	

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: GMCH
Ref. No.:

Date: 4/28/10
Personnel: J. Davis

Monitoring Well Data:

Well No.: MW-15
Measurement Point: TOR
Constructed Well Depth (ft): 17.90
Measured Well Depth (ft): 16.84
Depth of Sediment (ft): 1.06

Screen Length (ft): 8-15 = 7 ft
Depth to Pump Intake (ft)[1]: 12 ft
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]: 9.9 x 16 = 1.58 Gal
Initial Depth to Water (ft): 8.00

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
2:30		8.82	.82	7.05	10.34	1.671	26.3	4.70	11.1	0	0
2:35	.10	8.8	.80	6.81	9.59	1.801	29.9	0.71	9.7	1/2 Gal	
2:40	.10	8.8		6.79	9.45	1.865	32.4	0.46	5.9	1 Gal	
2:45	.10	8.8		6.79	9.53	1.894	34.1	.41	4.9	1.5	1 Vol
2:50	.10	8.8		6.79	9.51	1.933	36.2	.38	4.0	2	
2:55	.10	8.8		6.78	9.52	1.968	37.9	.36	3.9	2.5	
3:00	.10	8.8		6.78	9.50	1.983	39.6	.35	3.8	3 Gal	2 Vol
3:05	.10	8.8	↓	6.78	9.54	1.998	41.1	.35	3.5	3.5 Gal	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL PURGING FIELD INFORMATION FORM

JOB# 56546-00

SITE/PROJECT NAME: GMCH

WELL# MW-15

WELL PURGING INFORMATION

04 28 10	04 28 10	1.6	3.5
PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.........DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQIPMENT.........DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE: B
SAMPLING DEVICE: B

A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRA®

X- ______ PURGING OTHER (SPECIFY)
X- ______ SAMPLING OTHER (SPECIFY)

PURGING DEVICE: E
SAMPLING DEVICE: E

A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE

X- ______ PURGING OTHER (SPECIFY)
X- ______ SAMPLING OTHER (SPECIFY)

PURGING DEVICE: E
SAMPLING DEVICE: E

A - TEFLON; B - TYGON; C - ROPE; X- ______ (SPECIFY); D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE

X- ______ PURGING OTHER (SPECIFY)
X- ______ SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [ ] A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	594.04	(m/ft)	GROUNDWATER ELEVATION	586.04	(m/ft)
DEPTH TO WATER	8.00	(m/ft)	WELL DEPTH	17.90	(m/ft)

pH (std)	TURBIDITY (ntu)	CONDUCTIVITY (μm/cm) AT 25°C	ORP (mV)	DO (mg/L)	SAMPLE TEMPERATURE (°C)

FIELD COMMENTS

SAMPLE APPEARANCE: Good ODOR: None COLOR: Clear TURBIDITY: Clear

WEATHER CONDITIONS: WIND SPEED 15-20 mph DIRECTION SE PRECIPITATION Y/(N) OUTLOOK Sunny 60°

SPECIFIC COMMENTS

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE GM PROTOCOLS

4/28/10 Jennifer Davide [signature]

DATE PRINT SIGNATURE

FMG MODIFICATIONS MUST BE ACCOMPANIED BY A REVISION REQUEST FORM APPROVED BY THE PROJECT MANAGER

17300 (2) PART C FMG-06-4-01
Revision 3, October 29, 2002

APPENDIX B

TEST AMERICA ANALYTICAL LABORATORY REPORT

Analytical Report

SDG Number: RTD1981

Project Description(s)

Work Order RTD1981 - GM-Lockport NY Facility
Work Order RTD2095 - GM-Lockport NY Facility

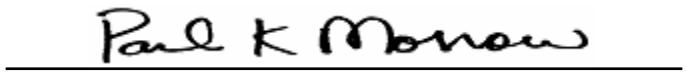
For:

Kathleen Willy

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY

2055 Niagara Falls Blvd. Ste#3

Niagara Falls, NY 14304



Paul Morrow

Project Manager

Paul.Morrow@testamericainc.com

Friday, May 14, 2010

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

TestAmerica Buffalo
Current Certifications

As of 04/16/2010

STATE	Program	Cert # / Lab ID
Arkansas	CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA,NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA,CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP,SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA,CLP	10026
North Dakota	CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania*	NELAP CWA,RCRA	68-00281
Tennessee	SDWA	02970
Texas*	NELAP CWA, RCRA	T104704412-08-TX
USDA	FOREIGN SOIL PERMIT	S-41579
Virginia	SDWA	278
Washington*	NELAP CWA,RCRA	C1677
Wisconsin	CWA, RCRA	998310390
West Virginia	CWA,RCRA	252

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

The analyte trans-1,2-Dichloroethene was detected in samples MW-4 and MW-7 and the analtye Tetrachlorothene in sample MW-7 at a concentration above the linear range of the initial calibration curve. Due to the high dilution dictated by other target compounds, this analyte was diluted out in the re-analysis of the sample. Therefore, the value being reported is from the original analysis and is qualified with an E flag.

There are pertinent documents appended to this report, 2 pages, are included and are an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
D04	Dilution required due to high levels of non-target compounds
D08	Dilution required due to high concentration of target analyte(s)
D15	Sample weight / volume has been reduced to eliminate matrix interference. Reporting limits have been adjusted accordingly.
E	Concentration exceeds the calibration range and therefore result is semi-quantitative.
J	Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
M1	The MS and/or MSD were outside the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
N1	See case narrative.
NR	Any inclusion of NR indicates that the project specific requirements do not require reporting estimated values below the laboratory reporting limit.

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
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SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: DUP (RTD1981-07 - Water)					**Sampled: 04/28/10 12:00**		**Recvd: 04/28/10 17:45**			
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**2.6**		1.0	0.36	ug/L	1.00	05/05/10 18:30	LH	10E0245	8260B
trans-1,2-Dichloroethene	**1.5**		1.0	0.90	ug/L	1.00	05/05/10 18:30	LH	10E0245	8260B
Trichloroethene	**24**		1.0	0.46	ug/L	1.00	05/05/10 18:30	LH	10E0245	8260B
Vinyl chloride	**42**		1.0	0.90	ug/L	1.00	05/05/10 18:30	LH	10E0245	8260B
Gases by RSK-175										
Methane	**140**	D08	50	11	ug/L	50.0	04/29/10 14:49	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**0.373**		0.050	0.019	mg/L	1.00	04/30/10 16:10	DAN	10D2776	6010B
Magnesium	**35.0**		0.200	0.043	mg/L	1.00	04/30/10 16:10	DAN	10D2776	6010B
Manganese	**1.18**		0.0030	0.0002	mg/L	1.00	04/30/10 16:10	DAN	10D2776	6010B
Potassium	**4.57**		0.500	0.050	mg/L	1.00	04/30/10 16:10	DAN	10D2776	6010B
Sodium	**890**	D08	5.0	1.6	mg/L	5.00	05/02/10 12:08	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**263**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Total Organic Carbon	**4.3**		1.0	0.4	mg/L	1.00	04/30/10 06:17	JME	10D2869	9060
Anions by EPA Method 300.0										
Chloride	**1460**	D08	10.0	5.64	mg/L	20.0	04/30/10 15:40	BWM	10E0062	300
Sulfate	**168**	D08	4.00	0.70	mg/L	2.00	04/29/10 20:24	BWM	10D2845	300
Client ID: DUP (RTD1981-07RE1 - Water)					**Sampled: 04/28/10 12:00**		**Recvd: 04/28/10 17:45**			
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**150**	D08	4.0	3.2	ug/L	4.00	05/06/10 00:57	CDC	10E0343	8260B
Client ID: MW-10 (RTD1981-06 - Water)					**Sampled: 04/28/10 17:00**		**Recvd: 04/28/10 17:45**			
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**1.1**		1.0	0.36	ug/L	1.00	05/05/10 18:06	LH	10E0245	8260B
trans-1,2-Dichloroethene	**1.2**		1.0	0.90	ug/L	1.00	05/05/10 18:06	LH	10E0245	8260B
Trichloroethene	**22**		1.0	0.46	ug/L	1.00	05/05/10 18:06	LH	10E0245	8260B
Vinyl chloride	**40**		1.0	0.90	ug/L	1.00	05/05/10 18:06	LH	10E0245	8260B
Gases by RSK-175										
Methane	**130**	D08	50	11	ug/L	50.0	04/29/10 14:35	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**10.5**		0.050	0.019	mg/L	1.00	04/30/10 16:05	DAN	10D2776	6010B
Magnesium	**34.4**		0.200	0.043	mg/L	1.00	04/30/10 16:05	DAN	10D2776	6010B
Manganese	**1.31**		0.0030	0.0002	mg/L	1.00	04/30/10 16:05	DAN	10D2776	6010B
Potassium	**4.22**		0.500	0.050	mg/L	1.00	04/30/10 16:05	DAN	10D2776	6010B
Sodium	**865**	D08	5.0	1.6	mg/L	5.00	05/02/10 12:03	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**259**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**0.053**		0.050	0.011	mg/L-N	1.00	04/29/10 20:30	JFR	10D2820	353.2
Total Organic Carbon	**4.0**		1.0	0.4	mg/L	1.00	04/30/10 05:46	JME	10D2869	9060

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-10 (RTD1981-06 - Water) - cont.						**Sampled: 04/28/10 17:00**		**Recvd: 04/28/10 17:45**		
Anions by EPA Method 300.0										
Chloride	**1420**	D08	10.0	5.64	mg/L	20.0	04/30/10 15:30	BWM	10E0062	300
Sulfate	**166**	D08	4.00	0.70	mg/L	2.00	04/29/10 20:14	ALD	10D2845	300
Client ID: MW-10 (RTD1981-06RE1 - Water)						**Sampled: 04/28/10 17:00**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**140**	D08	4.0	3.2	ug/L	4.00	05/06/10 00:32	CDC	10E0343	8260B
Client ID: MW-11 (RTD1981-04 - Water)						**Sampled: 04/28/10 13:30**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1.9**		1.0	0.81	ug/L	1.00	05/05/10 17:18	LH	10E0245	8260B
Vinyl chloride	**3.9**		1.0	0.90	ug/L	1.00	05/05/10 17:18	LH	10E0245	8260B
Gases by RSK-175										
Methane	**13**	D08	5.0	1.1	ug/L	5.00	04/29/10 14:20	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**2.55**		0.050	0.019	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
Magnesium	**44.3**		0.200	0.043	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
Manganese	**0.220**		0.0030	0.0002	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
Potassium	**8.94**		0.500	0.050	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
Sodium	**152**		1.0	0.3	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**245**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**0.109**		0.050	0.011	mg/L-N	1.00	04/29/10 20:26	JFR	10D2820	353.2
Total Organic Carbon	**2.1**		1.0	0.4	mg/L	1.00	05/04/10 01:24	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**325**	D08	2.00	1.13	mg/L	4.00	04/30/10 15:09	BWM	10E0062	300
Sulfate	**93.6**	D04	4.00	0.70	mg/L	2.00	04/29/10 19:54	ALD	10D2845	300
Client ID: MW-12 (RTD1981-02 - Water)						**Sampled: 04/28/10 10:30**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**1.1**		1.0	0.36	ug/L	1.00	05/05/10 16:30	LH	10E0245	8260B
trans-1,2-Dichloroethene	**1.6**		1.0	0.90	ug/L	1.00	05/05/10 16:30	LH	10E0245	8260B
Trichloroethene	**2.8**		1.0	0.46	ug/L	1.00	05/05/10 16:30	LH	10E0245	8260B
Gases by RSK-175										
Methane	**460**	D08	100	22	ug/L	100	04/29/10 13:51	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**14.0**		0.050	0.019	mg/L	1.00	04/30/10 15:41	DAN	10D2776	6010B
Magnesium	**98.0**		0.200	0.043	mg/L	1.00	04/30/10 15:41	DAN	10D2776	6010B
Manganese	**10.4**		0.0030	0.0002	mg/L	1.00	04/30/10 15:41	DAN	10D2776	6010B
Potassium	**5.22**		0.500	0.050	mg/L	1.00	04/30/10 15:41	DAN	10D2776	6010B
Sodium	**1470**	D08	10.0	3.2	mg/L	10.0	05/02/10 11:53	LMH	10D2776	6010B
General Chemistry Parameters										

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-12 (RTD1981-02 - Water) - cont.						**Sampled: 04/28/10 10:30**		**Recvd: 04/28/10 17:45**		
General Chemistry Parameters - cont.										
Alkalinity, Total	**315**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrite	**0.039**	J	0.050	0.020	mg/L-N	1.00	04/29/10 23:59	JFR	10D2825	353.2
Total Organic Carbon	**5.0**		1.0	0.4	mg/L	1.00	04/30/10 01:30	KLD	10D2797	9060
Anions by EPA Method 300.0										
Chloride	**2630**	D08	20.0	11.3	mg/L	40.0	05/03/10 11:34	BWM	10E0146	300
Sulfate	**153**	D08	4.00	0.70	mg/L	2.00	04/29/10 19:34	ALD	10D2845	300
Client ID: MW-12 (RTD1981-02RE1 - Water)						**Sampled: 04/28/10 10:30**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**270**	D08	5.0	4.0	ug/L	5.00	05/07/10 15:13	JRS	10E0502	8260B
Vinyl chloride	**120**	D08	5.0	4.5	ug/L	5.00	05/07/10 15:13	JRS	10E0502	8260B
Client ID: MW-13 (RTD1981-03 - Water)						**Sampled: 04/28/10 12:30**		**Recvd: 04/28/10 17:45**		
Gases by RSK-175										
Methane	**170**	D08	50	11	ug/L	50.0	04/29/10 14:06	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**9.12**		0.050	0.019	mg/L	1.00	04/30/10 15:46	DAN	10D2776	6010B
Magnesium	**59.9**		0.200	0.043	mg/L	1.00	04/30/10 15:46	DAN	10D2776	6010B
Manganese	**7.18**		0.0030	0.0002	mg/L	1.00	04/30/10 15:46	DAN	10D2776	6010B
Potassium	**11.2**		0.500	0.050	mg/L	1.00	04/30/10 15:46	DAN	10D2776	6010B
Sodium	**1380**	D08	10.0	3.2	mg/L	10.0	05/02/10 11:58	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**382**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**0.069**		0.050	0.011	mg/L-N	1.00	04/29/10 20:24	JFR	10D2820	353.2
Total Organic Carbon	**6.1**		1.0	0.4	mg/L	1.00	04/30/10 02:00	KLD	10D2797	9060
Anions by EPA Method 300.0										
Chloride	**2280**	D08	20.0	11.3	mg/L	40.0	05/03/10 11:44	BWM	10E0146	300
Sulfate	**102**	D04	4.00	0.70	mg/L	2.00	04/29/10 19:44	ALD	10D2845	300
Client ID: MW-14 (RTD1981-01 - Water)						**Sampled: 04/27/10 11:30**		**Recvd: 04/28/10 17:45**		
Gases by RSK-175										
Methane	**55**	D08	10	2.2	ug/L	10.0	04/29/10 13:37	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**0.064**		0.050	0.019	mg/L	1.00	04/30/10 15:36	DAN	10D2776	6010B
Magnesium	**70.2**		0.200	0.043	mg/L	1.00	04/30/10 15:36	DAN	10D2776	6010B
Manganese	**0.194**		0.0030	0.0002	mg/L	1.00	04/30/10 15:36	DAN	10D2776	6010B
Potassium	**6.22**		0.500	0.050	mg/L	1.00	04/30/10 15:36	DAN	10D2776	6010B
Sodium	**870**	D08	5.0	1.6	mg/L	5.00	05/02/10 11:48	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**354**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**0.030**	J	0.050	0.011	mg/L-N	1.00	04/28/10 18:10	RMB	10D2684	353.2
Total Organic Carbon	**2.7**		1.0	0.4	mg/L	1.00	04/30/10 01:00	KLD	10D2797	9060

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-14 (RTD1981-01 - Water) - cont.						**Sampled: 04/27/10 11:30**		**Recvd: 04/28/10 17:45**		
Anions by EPA Method 300.0										
Chloride	**1450**	D08	10.0	5.64	mg/L	20.0	04/30/10 14:39	BWM	10E0062	300
Sulfate	**65.7**	D04	4.00	0.70	mg/L	2.00	04/29/10 19:23	ALD	10D2845	300
Client ID: MW-15 (RTD1981-05 - Water)						**Sampled: 04/28/10 15:15**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**7.7**		1.0	0.36	ug/L	1.00	05/05/10 17:42	LH	10E0245	8260B
Trichloroethene	**0.68**	J	1.0	0.46	ug/L	1.00	05/05/10 17:42	LH	10E0245	8260B
Total Metals by SW 846 Series Methods										
Magnesium	**48.2**		0.200	0.043	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
Manganese	**0.130**		0.0030	0.0002	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
Potassium	**3.14**		0.500	0.050	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
Sodium	**318**		1.0	0.3	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**419**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**1.03**		0.050	0.011	mg/L-N	1.00	04/29/10 20:29	JFR	10D2820	353.2
Total Organic Carbon	**3.3**		1.0	0.4	mg/L	1.00	04/30/10 05:17	JME	10D2869	9060
Anions by EPA Method 300.0										
Chloride	**627**	D08	5.00	2.82	mg/L	10.0	04/30/10 15:20	BWM	10E0062	300
Sulfate	**66.0**	D04	4.00	0.70	mg/L	2.00	04/29/10 20:04	ALD	10D2845	300
Client ID: MW-4 (RTD2095-01 - Water)						**Sampled: 04/29/10 14:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**1.2**		1.0	0.36	ug/L	1.00	05/07/10 04:28	CDC	10E0397	8260B
trans-1,2-Dichloroethene	**150**	E, N1	1.0	0.90	ug/L	1.00	05/07/10 04:28	CDC	10E0397	8260B
Gases by RSK-175										
Methane	**1800**	D08	100	22	ug/L	100	05/04/10 08:37	JxM	10E0159	RSK175
Total Metals by SW 846 Series Methods										
Iron	**3.15**		0.050	0.019	mg/L	1.00	05/03/10 22:33	DAN	10E0003	6010B
Magnesium	**152**		0.200	0.043	mg/L	1.00	05/03/10 22:33	DAN	10E0003	6010B
Manganese	**1.86**		0.0030	0.0002	mg/L	1.00	05/03/10 22:33	DAN	10E0003	6010B
Potassium	**26.1**		0.500	0.050	mg/L	1.00	05/03/10 22:33	DAN	10E0003	6010B
Sodium	**1700**	D08	5.0	1.6	mg/L	5.00	05/05/10 14:09	DAN	10E0003	6010B
General Chemistry Parameters										
Alkalinity, Total	**333**		5.00	0.79	mg/L	1.00	05/03/10 09:58	KLD	10E0121	2320B
Total Organic Carbon	**4.3**		1.0	0.4	mg/L	1.00	05/04/10 09:33	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**3510**	D08	25.0	14.1	mg/L	50.0	05/04/10 17:58	ALD	10E0278	300
Sulfate	**272**	D08	20.0	3.49	mg/L	10.0	05/03/10 17:28	BWM	10E0148	300
Client ID: MW-4 (RTD2095-01RE1 - Water)						**Sampled: 04/29/10 14:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										

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Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-4 (RTD2095-01RE1 - Water) - cont.						**Sampled: 04/29/10 14:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B - cont.										
cis-1,2-Dichloroethene	**43000**	D08	800	650	ug/L	800	05/09/10 00:41	NMD	10E0579	8260B
Trichloroethene	**20000**	D08	800	370	ug/L	800	05/09/10 00:41	NMD	10E0579	8260B
Vinyl chloride	**9600**	D08	800	720	ug/L	800	05/09/10 00:41	NMD	10E0579	8260B
Client ID: MW-7 (RTD2095-02 - Water)						**Sampled: 04/29/10 15:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**140**	E, N1	1.0	0.36	ug/L	1.00	05/07/10 04:52	CDC	10E0397	8260B
trans-1,2-Dichloroethene	**150**	N1, E	1.0	0.90	ug/L	1.00	05/07/10 04:52	CDC	10E0397	8260B
Gases by RSK-175										
Methane	**57**	D08	5.0	1.1	ug/L	5.00	05/04/10 08:22	JxM	10E0159	RSK175
Total Metals by SW 846 Series Methods										
Iron	**0.041**	J	0.050	0.019	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
Magnesium	**70.2**		0.200	0.043	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
Manganese	**0.0243**		0.0030	0.0002	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
Potassium	**13.9**		0.500	0.050	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
Sodium	**204**		1.0	0.3	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
General Chemistry Parameters										
Alkalinity, Total	**239**		5.00	0.79	mg/L	1.00	05/03/10 09:58	KLD	10E0121	2320B
Total Organic Carbon	**10.9**		1.0	0.4	mg/L	1.00	05/04/10 10:04	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**280**	D08	5.00	2.82	mg/L	10.0	05/03/10 17:39	BWM	10E0148	300
Sulfate	**479**	D08	20.0	3.49	mg/L	10.0	05/03/10 17:39	BWM	10E0148	300
Client ID: MW-7 (RTD2095-02RE1 - Water)						**Sampled: 04/29/10 15:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**55000**	D08	10000	8100	ug/L	10000	05/09/10 01:05	NMD	10E0579	8260B
Trichloroethene	**800000**	D08	10000	4600	ug/L	10000	05/09/10 01:05	NMD	10E0579	8260B
Client ID: MW-8 (RTD2095-04 - Water)						**Sampled: 04/30/10 12:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1300**	D08	25	20	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
Tetrachloroethene	**13**	D08,J	25	9.1	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
Trichloroethene	**110**	D08	25	11	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
Vinyl chloride	**120**	D08	25	22	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
Gases by RSK-175										
Methane	**15**	D08	10	2.2	ug/L	10.0	05/04/10 07:37	JxM	10E0159	RSK175
Total Metals by SW 846 Series Methods										
Iron	**0.206**		0.050	0.019	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
Magnesium	**99.2**		0.200	0.043	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
Manganese	**0.457**		0.0030	0.0002	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
Potassium	**7.99**		0.500	0.050	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
Sodium	**248**		1.0	0.3	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B

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Project: GM-Lockport NY Facility
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Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Executive Summary - Detections

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-8 (RTD2095-04 - Water) - cont.						**Sampled: 04/30/10 12:30**		**Recvd: 04/30/10 13:10**		
General Chemistry Parameters										
Alkalinity, Total	**243**		5.00	0.79	mg/L	1.00	05/03/10 09:58	KLD	10E0121	2320B
Total Organic Carbon	**1.8**		1.0	0.4	mg/L	1.00	05/04/10 11:34	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**486**	D08	5.00	2.82	mg/L	10.0	05/03/10 17:59	BWM	10E0148	300
Sulfate	**500**	D08	20.0	3.49	mg/L	10.0	05/03/10 17:59	BWM	10E0148	300
Client ID: MW-9 (RTD2095-03 - Water)						**Sampled: 04/30/10 10:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
trans-1,2-Dichloroethene	**5.9**		1.0	0.90	ug/L	1.00	05/07/10 05:16	CDC	10E0397	8260B
Vinyl chloride	**31**		1.0	0.90	ug/L	1.00	05/07/10 05:16	CDC	10E0397	8260B
Gases by RSK-175										
Methane	**15**		1.0	0.22	ug/L	1.00	05/04/10 06:57	JxM	10E0159	RSK175
Total Metals by SW 846 Series Methods										
Magnesium	**102**		0.200	0.043	mg/L	1.00	05/03/10 22:56	DAN	10E0003	6010B
Manganese	**0.145**		0.0030	0.0002	mg/L	1.00	05/03/10 22:56	DAN	10E0003	6010B
Potassium	**8.72**		0.500	0.050	mg/L	1.00	05/03/10 22:56	DAN	10E0003	6010B
Sodium	**1680**	D08	5.0	1.6	mg/L	5.00	05/05/10 14:14	DAN	10E0003	6010B
General Chemistry Parameters										
Alkalinity, Total	**247**		5.00	0.79	mg/L	1.00	05/03/10 09:58	KLD	10E0121	2320B
Nitrate	**0.555**		0.050	0.011	mg/L-N	1.00	04/30/10 17:24	JFR	10D2918	353.2
Total Organic Carbon	**2.1**		1.0	0.4	mg/L	1.00	05/04/10 10:34	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**3040**	D08	20.0	11.3	mg/L	40.0	05/04/10 18:08	ALD	10E0278	300
Sulfate	**263**	D08	20.0	3.49	mg/L	10.0	05/03/10 17:49	BWM	10E0148	300
Client ID: MW-9 (RTD2095-03RE1 - Water)						**Sampled: 04/30/10 10:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1100**	D08	100	81	ug/L	100	05/07/10 21:26	RJ	10E0511	8260B
Tetrachloroethene	**160**	D08	100	36	ug/L	100	05/07/10 21:26	RJ	10E0511	8260B
Trichloroethene	**2200**	D08	100	46	ug/L	100	05/07/10 21:26	RJ	10E0511	8260B

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Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
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SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
DUP	RTD1981-07	Water	04/28/10 12:00	04/28/10 17:45	
MW-10	RTD1981-06	Water	04/28/10 17:00	04/28/10 17:45	
MW-11	RTD1981-04	Water	04/28/10 13:30	04/28/10 17:45	
MW-12	RTD1981-02	Water	04/28/10 10:30	04/28/10 17:45	
MW-13	RTD1981-03	Water	04/28/10 12:30	04/28/10 17:45	
MW-14	RTD1981-01	Water	04/27/10 11:30	04/28/10 17:45	
MW-15	RTD1981-05	Water	04/28/10 15:15	04/28/10 17:45	
MW-4	RTD2095-01	Water	04/29/10 14:30	04/30/10 13:10	
MW-7	RTD2095-02	Water	04/29/10 15:30	04/30/10 13:10	
MW-8	RTD2095-04	Water	04/30/10 12:30	04/30/10 13:10	
MW-9	RTD2095-03	Water	04/30/10 10:30	04/30/10 13:10	
TRIP BLANK	RTD1981-08	Water	04/28/10	04/28/10 17:45	

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SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: DUP (RTD1981-07 - Water)						**Sampled: 04/28/10 12:00**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**2.6**		1.0	0.36	ug/L	1.00	05/05/10 18:30	LH	10E0245	8260B
trans-1,2-Dichloroethene	**1.5**		1.0	0.90	ug/L	1.00	05/05/10 18:30	LH	10E0245	8260B
Trichloroethene	**24**		1.0	0.46	ug/L	1.00	05/05/10 18:30	LH	10E0245	8260B
Vinyl chloride	**42**		1.0	0.90	ug/L	1.00	05/05/10 18:30	LH	10E0245	8260B
1,2-Dichloroethane-d4	*96 %*		*Surr Limits: (66-137%)*				*05/05/10 18:30*	*LH*	*10E0245*	*8260B*
4-Bromofluorobenzene	*87 %*		*Surr Limits: (73-120%)*				*05/05/10 18:30*	*LH*	*10E0245*	*8260B*
Toluene-d8	*101 %*		*Surr Limits: (71-126%)*				*05/05/10 18:30*	*LH*	*10E0245*	*8260B*
Gases by RSK-175										
Methane	**140**	D08	50	11	ug/L	50.0	04/29/10 14:49	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**0.373**		0.050	0.019	mg/L	1.00	04/30/10 16:10	DAN	10D2776	6010B
Magnesium	**35.0**		0.200	0.043	mg/L	1.00	04/30/10 16:10	DAN	10D2776	6010B
Manganese	**1.18**		0.0030	0.0002	mg/L	1.00	04/30/10 16:10	DAN	10D2776	6010B
Potassium	**4.57**		0.500	0.050	mg/L	1.00	04/30/10 16:10	DAN	10D2776	6010B
Sodium	**890**	D08	5.0	1.6	mg/L	5.00	05/02/10 12:08	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**263**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	ND		0.050	0.011	mg/L-N	1.00	04/29/10 19:19	JFR	10D2820	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/29/10 23:59	JFR	10D2825	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	04/29/10 11:30	RJP	10D2805	4500-S F
Total Organic Carbon	**4.3**		1.0	0.4	mg/L	1.00	04/30/10 06:17	JME	10D2869	9060
Anions by EPA Method 300.0										
Chloride	**1460**	D08	10.0	5.64	mg/L	20.0	04/30/10 15:40	BWM	10E0062	300
Sulfate	**168**	D08	4.00	0.70	mg/L	2.00	04/29/10 20:24	BWM	10D2845	300

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Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: DUP (RTD1981-07RE1 - Water)						**Sampled: 04/28/10 12:00**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**150**	D08	4.0	3.2	ug/L	4.00	05/06/10 00:57	CDC	10E0343	8260B
1,2-Dichloroethane-d4	*94 %*	*D08*	*Surr Limits: (66-137%)*				*05/06/10 00:57*	*CDC*	*10E0343*	*8260B*
4-Bromofluorobenzene	*86 %*	*D08*	*Surr Limits: (73-120%)*				*05/06/10 00:57*	*CDC*	*10E0343*	*8260B*
Toluene-d8	*100 %*	*D08*	*Surr Limits: (71-126%)*				*05/06/10 00:57*	*CDC*	*10E0343*	*8260B*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-10 (RTD1981-06 - Water)						**Sampled: 04/28/10 17:00**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**1.1**		1.0	0.36	ug/L	1.00	05/05/10 18:06	LH	10E0245	8260B
trans-1,2-Dichloroethene	**1.2**		1.0	0.90	ug/L	1.00	05/05/10 18:06	LH	10E0245	8260B
Trichloroethene	**22**		1.0	0.46	ug/L	1.00	05/05/10 18:06	LH	10E0245	8260B
Vinyl chloride	**40**		1.0	0.90	ug/L	1.00	05/05/10 18:06	LH	10E0245	8260B
1,2-Dichloroethane-d4	*94 %*		*Surr Limits: (66-137%)*				*05/05/10 18:06*	*LH*	*10E0245*	*8260B*
4-Bromofluorobenzene	*84 %*		*Surr Limits: (73-120%)*				*05/05/10 18:06*	*LH*	*10E0245*	*8260B*
Toluene-d8	*98 %*		*Surr Limits: (71-126%)*				*05/05/10 18:06*	*LH*	*10E0245*	*8260B*
Gases by RSK-175										
Methane	**130**	D08	50	11	ug/L	50.0	04/29/10 14:35	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**10.5**		0.050	0.019	mg/L	1.00	04/30/10 16:05	DAN	10D2776	6010B
Magnesium	**34.4**		0.200	0.043	mg/L	1.00	04/30/10 16:05	DAN	10D2776	6010B
Manganese	**1.31**		0.0030	0.0002	mg/L	1.00	04/30/10 16:05	DAN	10D2776	6010B
Potassium	**4.22**		0.500	0.050	mg/L	1.00	04/30/10 16:05	DAN	10D2776	6010B
Sodium	**865**	D08	5.0	1.6	mg/L	5.00	05/02/10 12:03	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**259**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**0.053**		0.050	0.011	mg/L-N	1.00	04/29/10 20:30	JFR	10D2820	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/29/10 22:25	JFR	10D2825	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	04/29/10 11:30	RJP	10D2805	4500-S F
Total Organic Carbon	**4.0**		1.0	0.4	mg/L	1.00	04/30/10 05:46	JME	10D2869	9060
Anions by EPA Method 300.0										
Chloride	**1420**	D08	10.0	5.64	mg/L	20.0	04/30/10 15:30	BWM	10E0062	300
Sulfate	**166**	D08	4.00	0.70	mg/L	2.00	04/29/10 20:14	ALD	10D2845	300

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Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-10 (RTD1981-06RE1 - Water)						**Sampled: 04/28/10 17:00**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**140**	D08	4.0	3.2	ug/L	4.00	05/06/10 00:32	CDC	10E0343	8260B
1,2-Dichloroethane-d4	*95 %*	*D08*	*Surr Limits: (66-137%)*				*05/06/10 00:32*	*CDC*	*10E0343*	*8260B*
4-Bromofluorobenzene	*87 %*	*D08*	*Surr Limits: (73-120%)*				*05/06/10 00:32*	*CDC*	*10E0343*	*8260B*
Toluene-d8	*100 %*	*D08*	*Surr Limits: (71-126%)*				*05/06/10 00:32*	*CDC*	*10E0343*	*8260B*

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Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-11 (RTD1981-04 - Water)						**Sampled: 04/28/10 13:30**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1.9**		1.0	0.81	ug/L	1.00	05/05/10 17:18	LH	10E0245	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	05/05/10 17:18	LH	10E0245	8260B
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L	1.00	05/05/10 17:18	LH	10E0245	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	05/05/10 17:18	LH	10E0245	8260B
Vinyl chloride	**3.9**		1.0	0.90	ug/L	1.00	05/05/10 17:18	LH	10E0245	8260B
1,2-Dichloroethane-d4	*97 %*		*Surr Limits: (66-137%)*				*05/05/10 17:18*	*LH*	*10E0245*	*8260B*
4-Bromofluorobenzene	*88 %*		*Surr Limits: (73-120%)*				*05/05/10 17:18*	*LH*	*10E0245*	*8260B*
Toluene-d8	*99 %*		*Surr Limits: (71-126%)*				*05/05/10 17:18*	*LH*	*10E0245*	*8260B*
Gases by RSK-175										
Methane	**13**	D08	5.0	1.1	ug/L	5.00	04/29/10 14:20	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**2.55**		0.050	0.019	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
Magnesium	**44.3**		0.200	0.043	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
Manganese	**0.220**		0.0030	0.0002	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
Potassium	**8.94**		0.500	0.050	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
Sodium	**152**		1.0	0.3	mg/L	1.00	04/30/10 15:56	DAN	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**245**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**0.109**		0.050	0.011	mg/L-N	1.00	04/29/10 20:26	JFR	10D2820	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/29/10 22:23	JFR	10D2825	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	04/29/10 11:30	RJP	10D2805	4500-S F
Total Organic Carbon	**2.1**		1.0	0.4	mg/L	1.00	05/04/10 01:24	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**325**	D08	2.00	1.13	mg/L	4.00	04/30/10 15:09	BWM	10E0062	300
Sulfate	**93.6**	D04	4.00	0.70	mg/L	2.00	04/29/10 19:54	ALD	10D2845	300

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Project: GM-Lockport NY Facility
Project Number: GM- Lockport

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-12 (RTD1981-02 - Water)						**Sampled: 04/28/10 10:30**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**1.1**		1.0	0.36	ug/L	1.00	05/05/10 16:30	LH	10E0245	8260B
trans-1,2-Dichloroethene	**1.6**		1.0	0.90	ug/L	1.00	05/05/10 16:30	LH	10E0245	8260B
Trichloroethene	**2.8**		1.0	0.46	ug/L	1.00	05/05/10 16:30	LH	10E0245	8260B
1,2-Dichloroethane-d4	*93 %*		*Surr Limits: (66-137%)*				*05/05/10 16:30*	*LH*	*10E0245*	*8260B*
4-Bromofluorobenzene	*86 %*		*Surr Limits: (73-120%)*				*05/05/10 16:30*	*LH*	*10E0245*	*8260B*
Toluene-d8	*99 %*		*Surr Limits: (71-126%)*				*05/05/10 16:30*	*LH*	*10E0245*	*8260B*
Gases by RSK-175										
Methane	**460**	D08	100	22	ug/L	100	04/29/10 13:51	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**14.0**		0.050	0.019	mg/L	1.00	04/30/10 15:41	DAN	10D2776	6010B
Magnesium	**98.0**		0.200	0.043	mg/L	1.00	04/30/10 15:41	DAN	10D2776	6010B
Manganese	**10.4**		0.0030	0.0002	mg/L	1.00	04/30/10 15:41	DAN	10D2776	6010B
Potassium	**5.22**		0.500	0.050	mg/L	1.00	04/30/10 15:41	DAN	10D2776	6010B
Sodium	**1470**	D08	10.0	3.2	mg/L	10.0	05/02/10 11:53	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**315**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	ND		0.050	0.011	mg/L-N	1.00	04/29/10 19:14	JFR	10D2820	353.2
Nitrite	**0.039**	J	0.050	0.020	mg/L-N	1.00	04/29/10 23:59	JFR	10D2825	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	04/29/10 11:30	RJP	10D2805	4500-S F
Total Organic Carbon	**5.0**		1.0	0.4	mg/L	1.00	04/30/10 01:30	KLD	10D2797	9060
Anions by EPA Method 300.0										
Chloride	**2630**	D08	20.0	11.3	mg/L	40.0	05/03/10 11:34	BWM	10E0146	300
Sulfate	**153**	D08	4.00	0.70	mg/L	2.00	04/29/10 19:34	ALD	10D2845	300

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Project: GM-Lockport NY Facility
Project Number: GM- Lockport

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Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-12 (RTD1981-02RE1 - Water)						**Sampled: 04/28/10 10:30**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**270**	D08	5.0	4.0	ug/L	5.00	05/07/10 15:13	JRS	10E0502	8260B
Vinyl chloride	**120**	D08	5.0	4.5	ug/L	5.00	05/07/10 15:13	JRS	10E0502	8260B
1,2-Dichloroethane-d4	*98 %*	*D08*	*Surr Limits: (66-137%)*				*05/07/10 15:13*	*JRS*	*10E0502*	*8260B*
4-Bromofluorobenzene	*91 %*	*D08*	*Surr Limits: (73-120%)*				*05/07/10 15:13*	*JRS*	*10E0502*	*8260B*
Toluene-d8	*101 %*	*D08*	*Surr Limits: (71-126%)*				*05/07/10 15:13*	*JRS*	*10E0502*	*8260B*

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-13 (RTD1981-03 - Water)						**Sampled: 04/28/10 12:30**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L	1.00	05/05/10 16:54	LH	10E0245	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	05/05/10 16:54	LH	10E0245	8260B
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L	1.00	05/05/10 16:54	LH	10E0245	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	05/05/10 16:54	LH	10E0245	8260B
Vinyl chloride	ND		1.0	0.90	ug/L	1.00	05/05/10 16:54	LH	10E0245	8260B
1,2-Dichloroethane-d4	*93 %*		*Surr Limits: (66-137%)*				*05/05/10 16:54*	*LH*	*10E0245*	*8260B*
4-Bromofluorobenzene	*87 %*		*Surr Limits: (73-120%)*				*05/05/10 16:54*	*LH*	*10E0245*	*8260B*
Toluene-d8	*99 %*		*Surr Limits: (71-126%)*				*05/05/10 16:54*	*LH*	*10E0245*	*8260B*
Gases by RSK-175										
Methane	**170**	D08	50	11	ug/L	50.0	04/29/10 14:06	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**9.12**		0.050	0.019	mg/L	1.00	04/30/10 15:46	DAN	10D2776	6010B
Magnesium	**59.9**		0.200	0.043	mg/L	1.00	04/30/10 15:46	DAN	10D2776	6010B
Manganese	**7.18**		0.0030	0.0002	mg/L	1.00	04/30/10 15:46	DAN	10D2776	6010B
Potassium	**11.2**		0.500	0.050	mg/L	1.00	04/30/10 15:46	DAN	10D2776	6010B
Sodium	**1380**	D08	10.0	3.2	mg/L	10.0	05/02/10 11:58	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**382**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**0.069**		0.050	0.011	mg/L-N	1.00	04/29/10 20:24	JFR	10D2820	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/29/10 22:22	JFR	10D2825	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	04/29/10 11:30	RJP	10D2805	4500-S F
Total Organic Carbon	**6.1**		1.0	0.4	mg/L	1.00	04/30/10 02:00	KLD	10D2797	9060
Anions by EPA Method 300.0										
Chloride	**2280**	D08	20.0	11.3	mg/L	40.0	05/03/10 11:44	BWM	10E0146	300
Sulfate	**102**	D04	4.00	0.70	mg/L	2.00	04/29/10 19:44	ALD	10D2845	300

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-14 (RTD1981-01 - Water)						**Sampled: 04/27/10 11:30**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L	1.00	05/05/10 16:06	LH	10E0245	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	05/05/10 16:06	LH	10E0245	8260B
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L	1.00	05/05/10 16:06	LH	10E0245	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	05/05/10 16:06	LH	10E0245	8260B
Vinyl chloride	ND		1.0	0.90	ug/L	1.00	05/05/10 16:06	LH	10E0245	8260B
1,2-Dichloroethane-d4	*92 %*		*Surr Limits: (66-137%)*				*05/05/10 16:06*	*LH*	*10E0245*	*8260B*
4-Bromofluorobenzene	*88 %*		*Surr Limits: (73-120%)*				*05/05/10 16:06*	*LH*	*10E0245*	*8260B*
Toluene-d8	*99 %*		*Surr Limits: (71-126%)*				*05/05/10 16:06*	*LH*	*10E0245*	*8260B*
Gases by RSK-175										
Methane	**55**	D08	10	2.2	ug/L	10.0	04/29/10 13:37	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	**0.064**		0.050	0.019	mg/L	1.00	04/30/10 15:36	DAN	10D2776	6010B
Magnesium	**70.2**		0.200	0.043	mg/L	1.00	04/30/10 15:36	DAN	10D2776	6010B
Manganese	**0.194**		0.0030	0.0002	mg/L	1.00	04/30/10 15:36	DAN	10D2776	6010B
Potassium	**6.22**		0.500	0.050	mg/L	1.00	04/30/10 15:36	DAN	10D2776	6010B
Sodium	**870**	D08	5.0	1.6	mg/L	5.00	05/02/10 11:48	LMH	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**354**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**0.030**	J	0.050	0.011	mg/L-N	1.00	04/28/10 18:10	RMB	10D2684	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/28/10 19:04	JFR	10D2713	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	04/29/10 11:30	RJP	10D2805	4500-S F
Total Organic Carbon	**2.7**		1.0	0.4	mg/L	1.00	04/30/10 01:00	KLD	10D2797	9060
Anions by EPA Method 300.0										
Chloride	**1450**	D08	10.0	5.64	mg/L	20.0	04/30/10 14:39	BWM	10E0062	300
Sulfate	**65.7**	D04	4.00	0.70	mg/L	2.00	04/29/10 19:23	ALD	10D2845	300

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SDG Number: RTD1981

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-15 (RTD1981-05 - Water)						**Sampled: 04/28/10 15:15**		**Recvd: 04/28/10 17:45**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L	1.00	05/05/10 17:42	LH	10E0245	8260B
Tetrachloroethene	**7.7**		1.0	0.36	ug/L	1.00	05/05/10 17:42	LH	10E0245	8260B
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L	1.00	05/05/10 17:42	LH	10E0245	8260B
Trichloroethene	**0.68**	J	1.0	0.46	ug/L	1.00	05/05/10 17:42	LH	10E0245	8260B
Vinyl chloride	ND		1.0	0.90	ug/L	1.00	05/05/10 17:42	LH	10E0245	8260B
1,2-Dichloroethane-d4	*95 %*		*Surr Limits: (66-137%)*				*05/05/10 17:42*	*LH*	*10E0245*	*8260B*
4-Bromofluorobenzene	*86 %*		*Surr Limits: (73-120%)*				*05/05/10 17:42*	*LH*	*10E0245*	*8260B*
Toluene-d8	*102 %*		*Surr Limits: (71-126%)*				*05/05/10 17:42*	*LH*	*10E0245*	*8260B*
Gases by RSK-175										
Methane	ND		1.0	0.22	ug/L	1.00	04/29/10 12:04	JxM	10D2752	RSK175
Total Metals by SW 846 Series Methods										
Iron	ND		0.050	0.019	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
Magnesium	**48.2**		0.200	0.043	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
Manganese	**0.130**		0.0030	0.0002	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
Potassium	**3.14**		0.500	0.050	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
Sodium	**318**		1.0	0.3	mg/L	1.00	04/30/10 16:00	DAN	10D2776	6010B
General Chemistry Parameters										
Alkalinity, Total	**419**	B	5.00	0.79	mg/L	1.00	04/29/10 14:33	KLD	10D2809	2320B
Nitrate	**1.03**		0.050	0.011	mg/L-N	1.00	04/29/10 20:29	JFR	10D2820	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/29/10 22:24	JFR	10D2825	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	04/29/10 11:30	RJP	10D2805	4500-S F
Total Organic Carbon	**3.3**		1.0	0.4	mg/L	1.00	04/30/10 05:17	JME	10D2869	9060
Anions by EPA Method 300.0										
Chloride	**627**	D08	5.00	2.82	mg/L	10.0	04/30/10 15:20	BWM	10E0062	300
Sulfate	**66.0**	D04	4.00	0.70	mg/L	2.00	04/29/10 20:04	ALD	10D2845	300

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-4 (RTD2095-01 - Water)						**Sampled: 04/29/10 14:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**1.2**		1.0	0.36	ug/L	1.00	05/07/10 04:28	CDC	10E0397	8260B
trans-1,2-Dichloroethene	**150**	E, N1	1.0	0.90	ug/L	1.00	05/07/10 04:28	CDC	10E0397	8260B
1,2-Dichloroethane-d4	*96 %*		*Surr Limits: (66-137%)*				*05/07/10 04:28*	*CDC*	*10E0397*	*8260B*
4-Bromofluorobenzene	*87 %*		*Surr Limits: (73-120%)*				*05/07/10 04:28*	*CDC*	*10E0397*	*8260B*
Toluene-d8	*100 %*		*Surr Limits: (71-126%)*				*05/07/10 04:28*	*CDC*	*10E0397*	*8260B*
Gases by RSK-175										
Methane	**1800**	D08	100	22	ug/L	100	05/04/10 08:37	JxM	10E0159	RSK175
Total Metals by SW 846 Series Methods										
Iron	**3.15**		0.050	0.019	mg/L	1.00	05/03/10 22:33	DAN	10E0003	6010B
Magnesium	**152**		0.200	0.043	mg/L	1.00	05/03/10 22:33	DAN	10E0003	6010B
Manganese	**1.86**		0.0030	0.0002	mg/L	1.00	05/03/10 22:33	DAN	10E0003	6010B
Potassium	**26.1**		0.500	0.050	mg/L	1.00	05/03/10 22:33	DAN	10E0003	6010B
Sodium	**1700**	D08	5.0	1.6	mg/L	5.00	05/05/10 14:09	DAN	10E0003	6010B
General Chemistry Parameters										
Alkalinity, Total	**333**		5.00	0.79	mg/L	1.00	05/03/10 09:58	KLD	10E0121	2320B
Nitrate	ND		0.050	0.011	mg/L-N	1.00	04/30/10 17:22	JFR	10D2918	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/30/10 20:09	JFR	10D2919	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	05/03/10 12:00	KLD	10E0120	4500-S F
Total Organic Carbon	**4.3**		1.0	0.4	mg/L	1.00	05/04/10 09:33	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**3510**	D08	25.0	14.1	mg/L	50.0	05/04/10 17:58	ALD	10E0278	300
Sulfate	**272**	D08	20.0	3.49	mg/L	10.0	05/03/10 17:28	BWM	10E0148	300

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-4 (RTD2095-01RE1 - Water)						**Sampled: 04/29/10 14:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**43000**	D08	800	650	ug/L	800	05/09/10 00:41	NMD	10E0579	8260B
Trichloroethene	**20000**	D08	800	370	ug/L	800	05/09/10 00:41	NMD	10E0579	8260B
Vinyl chloride	**9600**	D08	800	720	ug/L	800	05/09/10 00:41	NMD	10E0579	8260B
1,2-Dichloroethane-d4	*101 %*	*D08*	*Surr Limits: (66-137%)*				*05/09/10 00:41*	*NMD*	*10E0579*	*8260B*
4-Bromofluorobenzene	*88 %*	*D08*	*Surr Limits: (73-120%)*				*05/09/10 00:41*	*NMD*	*10E0579*	*8260B*
Toluene-d8	*99 %*	*D08*	*Surr Limits: (71-126%)*				*05/09/10 00:41*	*NMD*	*10E0579*	*8260B*

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Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-7 (RTD2095-02 - Water)						**Sampled: 04/29/10 15:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
Tetrachloroethene	**140**	E, N1	1.0	0.36	ug/L	1.00	05/07/10 04:52	CDC	10E0397	8260B
trans-1,2-Dichloroethene	**150**	N1, E	1.0	0.90	ug/L	1.00	05/07/10 04:52	CDC	10E0397	8260B
1,2-Dichloroethane-d4	*100 %*		*Surr Limits: (66-137%)*				*05/07/10 04:52*	*CDC*	*10E0397*	*8260B*
4-Bromofluorobenzene	*93 %*		*Surr Limits: (73-120%)*				*05/07/10 04:52*	*CDC*	*10E0397*	*8260B*
Toluene-d8	*95 %*		*Surr Limits: (71-126%)*				*05/07/10 04:52*	*CDC*	*10E0397*	*8260B*
Gases by RSK-175										
Methane	**57**	D08	5.0	1.1	ug/L	5.00	05/04/10 08:22	JxM	10E0159	RSK175
Total Metals by SW 846 Series Methods										
Iron	**0.041**	J	0.050	0.019	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
Magnesium	**70.2**		0.200	0.043	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
Manganese	**0.0243**		0.0030	0.0002	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
Potassium	**13.9**		0.500	0.050	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
Sodium	**204**		1.0	0.3	mg/L	1.00	05/03/10 22:38	DAN	10E0003	6010B
General Chemistry Parameters										
Alkalinity, Total	**239**		5.00	0.79	mg/L	1.00	05/03/10 09:58	KLD	10E0121	2320B
Nitrate	ND		0.050	0.011	mg/L-N	1.00	04/30/10 17:23	JFR	10D2918	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/30/10 20:10	JFR	10D2919	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	05/03/10 12:00	KLD	10E0120	4500-S F
Total Organic Carbon	**10.9**		1.0	0.4	mg/L	1.00	05/04/10 10:04	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**280**	D08	5.00	2.82	mg/L	10.0	05/03/10 17:39	BWM	10E0148	300
Sulfate	**479**	D08	20.0	3.49	mg/L	10.0	05/03/10 17:39	BWM	10E0148	300

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Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-7 (RTD2095-02RE1 - Water)						**Sampled: 04/29/10 15:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**55000**	D08	10000	8100	ug/L	10000	05/09/10 01:05	NMD	10E0579	8260B
Trichloroethene	**800000**	D08	10000	4600	ug/L	10000	05/09/10 01:05	NMD	10E0579	8260B
Vinyl chloride	ND	D08	10000	9000	ug/L	10000	05/09/10 01:05	NMD	10E0579	8260B
1,2-Dichloroethane-d4	*100 %*	*D08*	*Surr Limits: (66-137%)*				*05/09/10 01:05*	*NMD*	*10E0579*	*8260B*
4-Bromofluorobenzene	*88 %*	*D08*	*Surr Limits: (73-120%)*				*05/09/10 01:05*	*NMD*	*10E0579*	*8260B*
Toluene-d8	*99 %*	*D08*	*Surr Limits: (71-126%)*				*05/09/10 01:05*	*NMD*	*10E0579*	*8260B*

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Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-8 (RTD2095-04 - Water)						**Sampled: 04/30/10 12:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1300**	D08	25	20	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
Tetrachloroethene	**13**	D08,J	25	9.1	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
trans-1,2-Dichloroethene	ND	D08	25	22	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
Trichloroethene	**110**	D08	25	11	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
Vinyl chloride	**120**	D08	25	22	ug/L	25.0	05/07/10 21:50	RJ	10E0511	8260B
1,2-Dichloroethane-d4	*98 %*	*D08*	*Surr Limits: (66-137%)*				*05/07/10 21:50*	*RJ*	*10E0511*	*8260B*
4-Bromofluorobenzene	*89 %*	*D08*	*Surr Limits: (73-120%)*				*05/07/10 21:50*	*RJ*	*10E0511*	*8260B*
Toluene-d8	*101 %*	*D08*	*Surr Limits: (71-126%)*				*05/07/10 21:50*	*RJ*	*10E0511*	*8260B*
Gases by RSK-175										
Methane	**15**	D08	10	2.2	ug/L	10.0	05/04/10 07:37	JxM	10E0159	RSK175
Total Metals by SW 846 Series Methods										
Iron	**0.206**		0.050	0.019	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
Magnesium	**99.2**		0.200	0.043	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
Manganese	**0.457**		0.0030	0.0002	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
Potassium	**7.99**		0.500	0.050	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
Sodium	**248**		1.0	0.3	mg/L	1.00	05/03/10 23:01	DAN	10E0003	6010B
General Chemistry Parameters										
Alkalinity, Total	**243**		5.00	0.79	mg/L	1.00	05/03/10 09:58	KLD	10E0121	2320B
Nitrate	ND		0.050	0.011	mg/L-N	1.00	04/30/10 17:25	JFR	10D2918	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/30/10 20:12	JFR	10D2919	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	05/03/10 12:00	KLD	10E0120	4500-S F
Total Organic Carbon	**1.8**		1.0	0.4	mg/L	1.00	05/04/10 11:34	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**486**	D08	5.00	2.82	mg/L	10.0	05/03/10 17:59	BWM	10E0148	300
Sulfate	**500**	D08	20.0	3.49	mg/L	10.0	05/03/10 17:59	BWM	10E0148	300

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SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-9 (RTD2095-03 - Water)						**Sampled: 04/30/10 10:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
trans-1,2-Dichloroethene	**5.9**		1.0	0.90	ug/L	1.00	05/07/10 05:16	CDC	10E0397	8260B
Vinyl chloride	**31**		1.0	0.90	ug/L	1.00	05/07/10 05:16	CDC	10E0397	8260B
1,2-Dichloroethane-d4	*97 %*		*Surr Limits: (66-137%)*				*05/07/10 05:16*	*CDC*	*10E0397*	*8260B*
4-Bromofluorobenzene	*89 %*		*Surr Limits: (73-120%)*				*05/07/10 05:16*	*CDC*	*10E0397*	*8260B*
Toluene-d8	*101 %*		*Surr Limits: (71-126%)*				*05/07/10 05:16*	*CDC*	*10E0397*	*8260B*
Gases by RSK-175										
Methane	**15**		1.0	0.22	ug/L	1.00	05/04/10 06:57	JxM	10E0159	RSK175
Total Metals by SW 846 Series Methods										
Iron	ND		0.050	0.019	mg/L	1.00	05/03/10 22:56	DAN	10E0003	6010B
Magnesium	**102**		0.200	0.043	mg/L	1.00	05/03/10 22:56	DAN	10E0003	6010B
Manganese	**0.145**		0.0030	0.0002	mg/L	1.00	05/03/10 22:56	DAN	10E0003	6010B
Potassium	**8.72**		0.500	0.050	mg/L	1.00	05/03/10 22:56	DAN	10E0003	6010B
Sodium	**1680**	D08	5.0	1.6	mg/L	5.00	05/05/10 14:14	DAN	10E0003	6010B
General Chemistry Parameters										
Alkalinity, Total	**247**		5.00	0.79	mg/L	1.00	05/03/10 09:58	KLD	10E0121	2320B
Nitrate	**0.555**		0.050	0.011	mg/L-N	1.00	04/30/10 17:24	JFR	10D2918	353.2
Nitrite	ND		0.050	0.020	mg/L-N	1.00	04/30/10 20:11	JFR	10D2919	353.2
Sulfide	ND		1.0	0.7	mg/L	1.00	05/03/10 12:00	KLD	10E0120	4500-S F
Total Organic Carbon	**2.1**		1.0	0.4	mg/L	1.00	05/04/10 10:34	KLD	10E0130	9060
Anions by EPA Method 300.0										
Chloride	**3040**	D08	20.0	11.3	mg/L	40.0	05/04/10 18:08	ALD	10E0278	300
Sulfate	**263**	D08	20.0	3.49	mg/L	10.0	05/03/10 17:49	BWM	10E0148	300

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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: MW-9 (RTD2095-03RE1 - Water)						**Sampled: 04/30/10 10:30**		**Recvd: 04/30/10 13:10**		
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	**1100**	D08	100	81	ug/L	100	05/07/10 21:26	RJ	10E0511	8260B
Tetrachloroethene	**160**	D08	100	36	ug/L	100	05/07/10 21:26	RJ	10E0511	8260B
Trichloroethene	**2200**	D08	100	46	ug/L	100	05/07/10 21:26	RJ	10E0511	8260B
1,2-Dichloroethane-d4	*100 %*	*D08*	*Surr Limits: (66-137%)*				*05/07/10 21:26*	*RJ*	*10E0511*	*8260B*
4-Bromofluorobenzene	*85 %*	*D08*	*Surr Limits: (73-120%)*				*05/07/10 21:26*	*RJ*	*10E0511*	*8260B*
Toluene-d8	*99 %*	*D08*	*Surr Limits: (71-126%)*				*05/07/10 21:26*	*RJ*	*10E0511*	*8260B*

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Reported: 05/14/10 16:50

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: TRIP BLANK (RTD1981-08 - Water)						**Sampled: 04/28/10**			**Recvd: 04/28/10 17:45**	
Volatile Organic Compounds by EPA 8260B										
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L	1.00	05/05/10 18:55	LH	10E0245	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	05/05/10 18:55	LH	10E0245	8260B
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L	1.00	05/05/10 18:55	LH	10E0245	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	05/05/10 18:55	LH	10E0245	8260B
Vinyl chloride	ND		1.0	0.90	ug/L	1.00	05/05/10 18:55	LH	10E0245	8260B
1,2-Dichloroethane-d4	*96 %*		*Surr Limits: (66-137%)*				*05/05/10 18:55*	*LH*	*10E0245*	*8260B*
4-Bromofluorobenzene	*86 %*		*Surr Limits: (73-120%)*				*05/05/10 18:55*	*LH*	*10E0245*	*8260B*
Toluene-d8	*100 %*		*Surr Limits: (71-126%)*				*05/05/10 18:55*	*LH*	*10E0245*	*8260B*

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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Anions by EPA Method 300.0									
300	10D2845	RTD1981-01	5.00	mL	5.00	mL	04/29/10 16:51	ALD	Direct Injection - Anions
300	10D2845	RTD1981-02	5.00	mL	5.00	mL	04/29/10 16:51	ALD	Direct Injection - Anions
300	10D2845	RTD1981-03	5.00	mL	5.00	mL	04/29/10 16:51	ALD	Direct Injection - Anions
300	10D2845	RTD1981-04	5.00	mL	5.00	mL	04/29/10 16:51	ALD	Direct Injection - Anions
300	10D2845	RTD1981-05	5.00	mL	5.00	mL	04/29/10 16:51	ALD	Direct Injection - Anions
300	10D2845	RTD1981-06	5.00	mL	5.00	mL	04/29/10 16:51	ALD	Direct Injection - Anions
300	10D2845	RTD1981-07	5.00	mL	5.00	mL	04/29/10 16:51	ALD	Direct Injection - Anions
300	10E0146	RTD1981-02	5.00	mL	5.00	mL	05/03/10 10:53	ALD	Direct Injection - Anions
300	10E0146	RTD1981-03	5.00	mL	5.00	mL	05/03/10 10:53	ALD	Direct Injection - Anions
300	10E0062	RTD1981-01	5.00	mL	5.00	mL	04/30/10 12:07	BWM	Direct Injection - Anions
300	10E0062	RTD1981-04	5.00	mL	5.00	mL	04/30/10 12:07	BWM	Direct Injection - Anions
300	10E0062	RTD1981-05	5.00	mL	5.00	mL	04/30/10 12:07	BWM	Direct Injection - Anions
300	10E0062	RTD1981-06	5.00	mL	5.00	mL	04/30/10 12:07	BWM	Direct Injection - Anions
300	10E0062	RTD1981-07	5.00	mL	5.00	mL	04/30/10 12:07	BWM	Direct Injection - Anions
Gases by RSK-175									
RSK175	10D2752	RTD1981-01	1.00	mL	1.00	mL	04/29/10 06:00	LMW	RSK-175
RSK175	10D2752	RTD1981-02	1.00	mL	1.00	mL	04/29/10 06:00	LMW	RSK-175
RSK175	10D2752	RTD1981-03	1.00	mL	1.00	mL	04/29/10 06:00	LMW	RSK-175
RSK175	10D2752	RTD1981-04	1.00	mL	1.00	mL	04/29/10 06:00	LMW	RSK-175
RSK175	10D2752	RTD1981-05	1.00	mL	1.00	mL	04/29/10 06:00	LMW	RSK-175
RSK175	10D2752	RTD1981-06	1.00	mL	1.00	mL	04/29/10 06:00	LMW	RSK-175
RSK175	10D2752	RTD1981-07	1.00	mL	1.00	mL	04/29/10 06:00	LMW	RSK-175
General Chemistry Parameters									
2320B	10D2809	RTD1981-01	50.00	mL	50.00	mL	04/29/10 14:33	KLD	No Prep Alkalinity
2320B	10D2809	RTD1981-02	50.00	mL	50.00	mL	04/29/10 14:33	KLD	No Prep Alkalinity
2320B	10D2809	RTD1981-03	50.00	mL	50.00	mL	04/29/10 14:33	KLD	No Prep Alkalinity
2320B	10D2809	RTD1981-04	50.00	mL	50.00	mL	04/29/10 14:33	KLD	No Prep Alkalinity
2320B	10D2809	RTD1981-05	50.00	mL	50.00	mL	04/29/10 14:33	KLD	No Prep Alkalinity
2320B	10D2809	RTD1981-06	50.00	mL	50.00	mL	04/29/10 14:33	KLD	No Prep Alkalinity
2320B	10D2809	RTD1981-07	50.00	mL	50.00	mL	04/29/10 14:33	KLD	No Prep Alkalinity
353.2	10D2820	RTD1981-02	5.00	mL	5.00	mL	04/29/10 19:04	JFR	Nitrate
353.2	10D2820	RTD1981-03	5.00	mL	5.00	mL	04/29/10 19:04	JFR	Nitrate
353.2	10D2820	RTD1981-04	5.00	mL	5.00	mL	04/29/10 19:04	JFR	Nitrate
353.2	10D2820	RTD1981-05	5.00	mL	5.00	mL	04/29/10 19:04	JFR	Nitrate
353.2	10D2820	RTD1981-06	5.00	mL	5.00	mL	04/29/10 19:04	JFR	Nitrate
353.2	10D2820	RTD1981-07	5.00	mL	5.00	mL	04/29/10 19:04	JFR	Nitrate

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SDG Number: RTD1981

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Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
353.2	10D2825	RTD1981-02	5.00	mL	5.00	mL	04/29/10 22:20	JFR	Nitrite
353.2	10D2825	RTD1981-03	5.00	mL	5.00	mL	04/29/10 22:20	JFR	Nitrite
353.2	10D2825	RTD1981-04	5.00	mL	5.00	mL	04/29/10 22:20	JFR	Nitrite
353.2	10D2825	RTD1981-05	5.00	mL	5.00	mL	04/29/10 22:20	JFR	Nitrite
353.2	10D2825	RTD1981-06	5.00	mL	5.00	mL	04/29/10 22:20	JFR	Nitrite
353.2	10D2825	RTD1981-07	5.00	mL	5.00	mL	04/29/10 22:20	JFR	Nitrite
353.2	10D2684	RTD1981-01	5.00	mL	5.00	mL	04/28/10 18:10	RMB	Nitrate/Nitrite
353.2	10D2713	RTD1981-01	5.00	mL	5.00	mL	04/28/10 18:41	RMB	Nitrate/Nitrite
4500-S F	10D2805	RTD1981-01	100.00	mL	100.00	mL	04/29/10 11:30	RJP	No prep Sulfide
4500-S F	10D2805	RTD1981-02	100.00	mL	100.00	mL	04/29/10 11:30	RJP	No prep Sulfide
4500-S F	10D2805	RTD1981-03	100.00	mL	100.00	mL	04/29/10 11:30	RJP	No prep Sulfide
4500-S F	10D2805	RTD1981-04	100.00	mL	100.00	mL	04/29/10 11:30	RJP	No prep Sulfide
4500-S F	10D2805	RTD1981-05	100.00	mL	100.00	mL	04/29/10 11:30	RJP	No prep Sulfide
4500-S F	10D2805	RTD1981-06	100.00	mL	100.00	mL	04/29/10 11:30	RJP	No prep Sulfide
4500-S F	10D2805	RTD1981-07	100.00	mL	100.00	mL	04/29/10 11:30	RJP	No prep Sulfide
9060	10D2797	RTD1981-01	40.00	mL	40.00	mL	04/29/10 13:59	JME	No prep Carbon
9060	10D2797	RTD1981-02	40.00	mL	40.00	mL	04/29/10 13:59	JME	No prep Carbon
9060	10D2797	RTD1981-03	40.00	mL	40.00	mL	04/29/10 13:59	JME	No prep Carbon
9060	10D2869	RTD1981-05	40.00	mL	40.00	mL	04/29/10 13:59	JME	No prep Carbon
9060	10D2869	RTD1981-06	40.00	mL	40.00	mL	04/29/10 13:59	JME	No prep Carbon
9060	10D2869	RTD1981-07	40.00	mL	40.00	mL	04/29/10 13:59	JME	No prep Carbon
9060	10E0130	RTD1981-04	40.00	mL	40.00	mL	05/03/10 22:43	MDM	No prep Carbon
Total Metals by SW 846 Series Methods									
6010B	10D2776	RTD1981-01	50.00	mL	50.00	mL	04/30/10 10:30	JRK	3005A
6010B	10D2776	RTD1981-02	50.00	mL	50.00	mL	04/30/10 10:30	JRK	3005A
6010B	10D2776	RTD1981-03	50.00	mL	50.00	mL	04/30/10 10:30	JRK	3005A
6010B	10D2776	RTD1981-04	50.00	mL	50.00	mL	04/30/10 10:30	JRK	3005A
6010B	10D2776	RTD1981-05	50.00	mL	50.00	mL	04/30/10 10:30	JRK	3005A
6010B	10D2776	RTD1981-06	50.00	mL	50.00	mL	04/30/10 10:30	JRK	3005A
6010B	10D2776	RTD1981-07	50.00	mL	50.00	mL	04/30/10 10:30	JRK	3005A
Volatile Organic Compounds by EPA 8260B									
8260B	10E0245	RTD1981-01	5.00	mL	5.00	mL	05/04/10 19:53	CDC	5030B MS
8260B	10E0245	RTD1981-02	5.00	mL	5.00	mL	05/04/10 19:53	CDC	5030B MS
8260B	10E0245	RTD1981-03	5.00	mL	5.00	mL	05/04/10 19:53	CDC	5030B MS
8260B	10E0245	RTD1981-04	5.00	mL	5.00	mL	05/04/10 19:53	CDC	5030B MS
8260B	10E0245	RTD1981-05	5.00	mL	5.00	mL	05/04/10 19:53	CDC	5030B MS
8260B	10E0245	RTD1981-06	5.00	mL	5.00	mL	05/04/10 19:53	CDC	5030B MS

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Received: 04/28/10-04/30/10
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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
8260B	10E0245	RTD1981-07	5.00	mL	5.00	mL	05/04/10 19:53	CDC	5030B MS
8260B	10E0245	RTD1981-08	5.00	mL	5.00	mL	05/04/10 19:53	CDC	5030B MS
8260B	10E0343	RTD1981-06RE	5.00	mL	5.00	mL	05/05/10 20:40	CDC	5030B MS
8260B	10E0343	RTD1981-07RE	5.00	mL	5.00	mL	05/05/10 20:40	CDC	5030B MS
8260B	10E0502	RTD1981-02RE	5.00	mL	5.00	mL	05/07/10 09:32	JRS	5030B MS

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
Anions by EPA Method 300.0									
300	10E0148	RTD2095-01	5.00	mL	5.00	mL	05/03/10 16:48	ALD	Direct Injection - Anions
300	10E0148	RTD2095-02	5.00	mL	5.00	mL	05/03/10 16:48	ALD	Direct Injection - Anions
300	10E0148	RTD2095-03	5.00	mL	5.00	mL	05/03/10 16:48	ALD	Direct Injection - Anions
300	10E0148	RTD2095-04	5.00	mL	5.00	mL	05/03/10 16:48	ALD	Direct Injection - Anions
300	10E0278	RTD2095-01	5.00	mL	5.00	mL	05/04/10 17:17	ALD	Direct Injection - Anions
300	10E0278	RTD2095-03	5.00	mL	5.00	mL	05/04/10 17:17	ALD	Direct Injection - Anions
Gases by RSK-175									
RSK175	10E0159	RTD2095-01	1.00	mL	1.00	mL	05/04/10 05:00	JXM	RSK-175
RSK175	10E0159	RTD2095-02	1.00	mL	1.00	mL	05/04/10 05:00	JXM	RSK-175
RSK175	10E0159	RTD2095-03	1.00	mL	1.00	mL	05/04/10 05:00	JXM	RSK-175
RSK175	10E0159	RTD2095-04	1.00	mL	1.00	mL	05/04/10 05:00	JXM	RSK-175
General Chemistry Parameters									
2320B	10E0121	RTD2095-01	50.00	mL	50.00	mL	05/03/10 09:58	KLD	No Prep Alkalinity
2320B	10E0121	RTD2095-02	50.00	mL	50.00	mL	05/03/10 09:58	KLD	No Prep Alkalinity
2320B	10E0121	RTD2095-03	50.00	mL	50.00	mL	05/03/10 09:58	KLD	No Prep Alkalinity
2320B	10E0121	RTD2095-04	50.00	mL	50.00	mL	05/03/10 09:58	KLD	No Prep Alkalinity
353.2	10D2918	RTD2095-01	5.00	mL	5.00	mL	04/30/10 16:17	RMB	Nitrate/Nitrite
353.2	10D2918	RTD2095-02	5.00	mL	5.00	mL	04/30/10 16:17	RMB	Nitrate/Nitrite
353.2	10D2918	RTD2095-03	5.00	mL	5.00	mL	04/30/10 16:17	RMB	Nitrate/Nitrite
353.2	10D2918	RTD2095-04	5.00	mL	5.00	mL	04/30/10 16:17	RMB	Nitrate/Nitrite
353.2	10D2919	RTD2095-01	5.00	mL	5.00	mL	04/30/10 19:43	RMB	Nitrate/Nitrite
353.2	10D2919	RTD2095-02	5.00	mL	5.00	mL	04/30/10 19:43	RMB	Nitrate/Nitrite
353.2	10D2919	RTD2095-03	5.00	mL	5.00	mL	04/30/10 19:43	RMB	Nitrate/Nitrite
353.2	10D2919	RTD2095-04	5.00	mL	5.00	mL	04/30/10 19:43	RMB	Nitrate/Nitrite
4500-S F	10E0120	RTD2095-01	100.00	mL	100.00	mL	05/03/10 12:00	KLD	No prep Sulfide
4500-S F	10E0120	RTD2095-02	100.00	mL	100.00	mL	05/03/10 12:00	KLD	No prep Sulfide
4500-S F	10E0120	RTD2095-03	100.00	mL	100.00	mL	05/03/10 12:00	KLD	No prep Sulfide
4500-S F	10E0120	RTD2095-04	100.00	mL	100.00	mL	05/03/10 12:00	KLD	No prep Sulfide

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SDG Number: RTD1981

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Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
9060	10E0130	RTD2095-01	40.00	mL	40.00	mL	05/03/10 22:43	MDM	No prep Carbon
9060	10E0130	RTD2095-02	40.00	mL	40.00	mL	05/03/10 22:43	MDM	No prep Carbon
9060	10E0130	RTD2095-03	40.00	mL	40.00	mL	05/03/10 22:43	MDM	No prep Carbon
9060	10E0130	RTD2095-04	40.00	mL	40.00	mL	05/03/10 22:43	MDM	No prep Carbon
Total Metals by SW 846 Series Methods									
6010B	10E0003	RTD2095-01	50.00	mL	50.00	mL	05/03/10 10:15	JRK	3005A
6010B	10E0003	RTD2095-02	50.00	mL	50.00	mL	05/03/10 10:15	JRK	3005A
6010B	10E0003	RTD2095-03	50.00	mL	50.00	mL	05/03/10 10:15	JRK	3005A
6010B	10E0003	RTD2095-04	50.00	mL	50.00	mL	05/03/10 10:15	JRK	3005A
Volatile Organic Compounds by EPA 8260B									
8260B	10E0397	RTD2095-01	5.00	mL	5.00	mL	05/06/10 11:26	CDC	5030B MS
8260B	10E0397	RTD2095-02	5.00	mL	5.00	mL	05/06/10 11:26	CDC	5030B MS
8260B	10E0397	RTD2095-03	5.00	mL	5.00	mL	05/06/10 11:26	CDC	5030B MS
8260B	10E0579	RTD2095-01RE	5.00	mL	5.00	mL	05/08/10 11:22	NMD	5030B MS
8260B	10E0579	RTD2095-02RE	5.00	mL	5.00	mL	05/08/10 11:22	NMD	5030B MS
8260B	10E0511	RTD2095-03RE	5.00	mL	5.00	mL	05/07/10 15:24	RMJ	5030B MS
8260B	10E0511	RTD2095-04	5.00	mL	5.00	mL	05/07/10 15:24	RMJ	5030B MS

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 05/05/10 (Lab Number:10E0245-BLK1, Batch: 10E0245)											
cis-1,2-Dichloroethene			1.0	0.81	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.90	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Vinyl chloride			1.0	0.90	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*93*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*91*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*100*	*71-126*			
LCS Analyzed: 05/05/10 (Lab Number:10E0245-BS1, Batch: 10E0245)											
cis-1,2-Dichloroethene		25.0	1.0	0.81	ug/L	23.0	92	74-124			
Tetrachloroethene		25.0	1.0	0.36	ug/L	23.7	95	74-122			
trans-1,2-Dichloroethene		25.0	1.0	0.90	ug/L	23.8	95	73-127			
Trichloroethene		25.0	1.0	0.46	ug/L	23.7	95	74-123			
Vinyl chloride			1.0	0.90	ug/L	ND		65-133			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*92*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*91*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*97*	*71-126*			
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 05/05/10 (Lab Number:10E0343-BLK1, Batch: 10E0343)											
cis-1,2-Dichloroethene			1.0	0.81	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.90	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Vinyl chloride			1.0	0.90	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*96*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*87*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*97*	*71-126*			
LCS Analyzed: 05/05/10 (Lab Number:10E0343-BS1, Batch: 10E0343)											
cis-1,2-Dichloroethene		25.0	1.0	0.81	ug/L	24.9	99	74-124			
Tetrachloroethene		25.0	1.0	0.36	ug/L	24.0	96	74-122			
trans-1,2-Dichloroethene		25.0	1.0	0.90	ug/L	25.4	102	73-127			
Trichloroethene		25.0	1.0	0.46	ug/L	25.1	101	74-123			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
LCS Analyzed: 05/05/10 (Lab Number:10E0343-BS1, Batch: 10E0343)											
Vinyl chloride			1.0	0.90	ug/L	ND		65-133			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*94*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*89*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*97*	*71-126*			
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 05/06/10 (Lab Number:10E0397-BLK1, Batch: 10E0397)											
cis-1,2-Dichloroethene			1.0	0.81	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.90	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Vinyl chloride			1.0	0.90	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*95*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*89*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*99*	*71-126*			
LCS Analyzed: 05/06/10 (Lab Number:10E0397-BS1, Batch: 10E0397)											
cis-1,2-Dichloroethene		25.0	5.0	0.81	ug/L	24.7	99	74-124			
Tetrachloroethene		25.0	5.0	0.36	ug/L	24.2	97	74-122			
trans-1,2-Dichloroethene		25.0	5.0	0.90	ug/L	25.4	102	73-127			
Trichloroethene		25.0	5.0	0.46	ug/L	25.0	100	74-123			
Vinyl chloride			2.0	0.90	ug/L	ND		65-133			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*95*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*91*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*98*	*71-126*			
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 05/07/10 (Lab Number:10E0502-BLK1, Batch: 10E0502)											
cis-1,2-Dichloroethene			1.0	0.81	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.90	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Vinyl chloride			1.0	0.90	ug/L	ND					

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 05/07/10 (Lab Number:10E0502-BLK1, Batch: 10E0502)											
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*90*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*86*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*97*	*71-126*			
LCS Analyzed: 05/07/10 (Lab Number:10E0502-BS1, Batch: 10E0502)											
cis-1,2-Dichloroethene		25.0	1.0	0.81	ug/L	25.0	100	74-124			
Tetrachloroethene		25.0	1.0	0.36	ug/L	25.1	101	74-122			
trans-1,2-Dichloroethene		25.0	1.0	0.90	ug/L	24.5	98	73-127			
Trichloroethene		25.0	1.0	0.46	ug/L	25.6	102	74-123			
Vinyl chloride		25.0	1.0	0.90	ug/L	25.3	101	65-133			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*97*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*93*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*103*	*71-126*			
Volatile Organic Compounds by EPA 8260B											
Blank Analyzed: 05/07/10 (Lab Number:10E0511-BLK1, Batch: 10E0511)											
cis-1,2-Dichloroethene			1.0	0.81	ug/L	ND					
Tetrachloroethene			1.0	0.36	ug/L	ND					
trans-1,2-Dichloroethene			1.0	0.90	ug/L	ND					
Trichloroethene			1.0	0.46	ug/L	ND					
Vinyl chloride			1.0	0.90	ug/L	ND					
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*97*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*88*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*99*	*71-126*			
LCS Analyzed: 05/07/10 (Lab Number:10E0511-BS1, Batch: 10E0511)											
cis-1,2-Dichloroethene		25.0	2.7	0.81	ug/L	23.7	95	74-124			
Tetrachloroethene		25.0	1.2	0.36	ug/L	24.3	97	74-122			
trans-1,2-Dichloroethene		25.0	4.5	0.90	ug/L	24.3	97	73-127			
Trichloroethene		25.0	3.2	0.46	ug/L	24.5	98	74-123			
Vinyl chloride			2.0	0.90	ug/L	ND		65-133			
Surrogate: 1,2-Dichloroethane-d4					*ug/L*		*94*	*66-137*			
Surrogate: 4-Bromofluorobenzene					*ug/L*		*92*	*73-120*			
Surrogate: Toluene-d8					*ug/L*		*98*	*71-126*			

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Volatile Organic Compounds by EPA 8260B

Blank Analyzed: 05/08/10 (Lab Number:10E0579-BLK1, Batch: 10E0579)

cis-1,2-Dichloroethene		1.0	0.81	ug/L	ND		
Tetrachloroethene		1.0	0.36	ug/L	ND		
trans-1,2-Dichloroethene		1.0	0.90	ug/L	ND		
Trichloroethene		1.0	0.46	ug/L	ND		
Vinyl chloride		1.0	0.90	ug/L	ND		
Surrogate: 1,2-Dichloroethane-d4				*ug/L*		*94*	*66-137*
Surrogate: 4-Bromofluorobenzene				*ug/L*		*87*	*73-120*
Surrogate: Toluene-d8				*ug/L*		*98*	*71-126*

LCS Analyzed: 05/08/10 (Lab Number:10E0579-BS1, Batch: 10E0579)

cis-1,2-Dichloroethene	25.0	1.0	0.81	ug/L	25.1	100	74-124
Tetrachloroethene	25.0	1.0	0.36	ug/L	24.0	96	74-122
trans-1,2-Dichloroethene	25.0	1.0	0.90	ug/L	24.8	99	73-127
Trichloroethene	25.0	1.0	0.46	ug/L	25.6	102	74-123
Vinyl chloride	25.0	1.0	0.90	ug/L	23.8	95	65-133
Surrogate: 1,2-Dichloroethane-d4				*ug/L*		*93*	*66-137*
Surrogate: 4-Bromofluorobenzene				*ug/L*		*92*	*73-120*
Surrogate: Toluene-d8				*ug/L*		*96*	*71-126*

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Gases by RSK-175											
Blank Analyzed: 04/29/10 (Lab Number:10D2752-BLK1, Batch: 10D2752)											
Ethane			1.5	0.49	ug/L	ND					
Ethene			1.5	0.52	ug/L	ND					
Methane			1.0	0.22	ug/L	ND					
LCS Analyzed: 04/29/10 (Lab Number:10D2752-BS1, Batch: 10D2752)											
Ethane		7.24	1.5	0.49	ug/L	6.81	94	41-176			
Ethene		6.76	1.5	0.52	ug/L	6.20	92	62-143			
Methane		3.86	1.0	0.22	ug/L	4.13	107	67-140			
Matrix Spike Analyzed: 04/29/10 (Lab Number:10D2752-MS1, Batch: 10D2752)											
QC Source Sample: RTD1981-02											
Ethane	ND	724	150	49	ug/L	700	97	41-176			
Ethene	ND	676	150	52	ug/L	644	95	39-177			
Methane	463	386	100	22	ug/L	959	129	37-168			
Matrix Spike Dup Analyzed: 04/29/10 (Lab Number:10D2752-MSD1, Batch: 10D2752)											
QC Source Sample: RTD1981-02											
Ethane	ND	724	150	49	ug/L	691	95	41-176	1	50	
Ethene	ND	676	150	52	ug/L	644	95	39-177	0.02	50	
Methane	463	386	100	22	ug/L	865	104	37-168	10	50	
Gases by RSK-175											
Blank Analyzed: 05/04/10 (Lab Number:10E0159-BLK1, Batch: 10E0159)											
Ethane			1.5	0.49	ug/L	ND					
Ethene			1.5	0.52	ug/L	ND					
Methane			1.0	0.22	ug/L	ND					
LCS Analyzed: 05/04/10 (Lab Number:10E0159-BS1, Batch: 10E0159)											
Ethane		7.24	1.5	0.49	ug/L	6.88	95	41-176			
Ethene		6.76	1.5	0.52	ug/L	6.15	91	62-143			
Methane		3.86	1.0	0.22	ug/L	3.34	87	67-140			
Matrix Spike Analyzed: 05/04/10 (Lab Number:10E0159-MS1, Batch: 10E0159)											
QC Source Sample: RTD2095-01											
Ethane	ND	724	150	49	ug/L	829	115	41-176			D08
Ethene	718	676	150	52	ug/L	1480	113	39-177			D08
Methane	1770	386	100	22	ug/L	2260	125	37-168			D08
Matrix Spike Dup Analyzed: 05/04/10 (Lab Number:10E0159-MSD1, Batch: 10E0159)											
QC Source Sample: RTD2095-01											
Ethane	ND	724	150	49	ug/L	826	114	41-176	0.4	50	D08

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Gases by RSK-175											
Matrix Spike Dup Analyzed: 05/04/10 (Lab Number:10E0159-MSD1, Batch: 10E0159)											
QC Source Sample: RTD2095-01											
Ethene	718	676	150	52	ug/L	1530	120	39-177	3	50	D08
Methane	1770	386	100	22	ug/L	2440	173	37-168	8	50	D08,M1

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Total Metals by SW 846 Series Methods											
Blank Analyzed: 04/30/10 (Lab Number:10D2776-BLK1, Batch: 10D2776)											
Iron			0.100	0.019	mg/L	ND					
Magnesium			0.200	0.043	mg/L	ND					
Manganese			0.0150	0.0002	mg/L	ND					
Potassium			0.500	0.050	mg/L	ND					
Sodium			1.0	0.3	mg/L	ND					
LCS Analyzed: 04/30/10 (Lab Number:10D2776-BS1, Batch: 10D2776)											
Iron		10.0	0.100	0.019	mg/L	9.66	97	80-120			
Magnesium		10.0	0.200	0.043	mg/L	10.1	101	80-120			
Manganese		0.200	0.0150	0.0002	mg/L	0.196	98	80-120			
Potassium		10.0	0.500	0.050	mg/L	9.67	97	80-120			
Sodium		10.0	1.0	0.3	mg/L	9.94	99	80-120			
Total Metals by SW 846 Series Methods											
Blank Analyzed: 05/03/10 (Lab Number:10E0003-BLK1, Batch: 10E0003)											
Iron			0.100	0.019	mg/L	ND					
Magnesium			0.240	0.043	mg/L	ND					
Manganese			0.0100	0.0002	mg/L	ND					
Potassium			0.100	0.050	mg/L	ND					
Sodium			1.0	0.3	mg/L	ND					
LCS Analyzed: 05/03/10 (Lab Number:10E0003-BS1, Batch: 10E0003)											
Iron		10.0	0.100	0.019	mg/L	10.0	100	80-120			
Magnesium		10.0	0.240	0.043	mg/L	10.2	102	80-120			
Manganese		0.200	0.0100	0.0002	mg/L	0.199	100	80-120			
Potassium		10.0	0.500	0.050	mg/L	10.3	103	80-120			
Sodium		10.0	1.0	0.3	mg/L	10.1	101	80-120			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 04/28/10 (Lab Number:10D2684-BLK1, Batch: 10D2684)											
Nitrate			0.050	0.011	mg/L-N	ND					
LCS Analyzed: 04/28/10 (Lab Number:10D2684-BS1, Batch: 10D2684)											
Nitrate		1.50	0.050	0.011	mg/L-N	1.61	107	90-110			
General Chemistry Parameters											
Blank Analyzed: 04/28/10 (Lab Number:10D2713-BLK1, Batch: 10D2713)											
Nitrite			0.050	0.020	mg/L-N	ND					
LCS Analyzed: 04/28/10 (Lab Number:10D2713-BS1, Batch: 10D2713)											
Nitrite		1.50	0.050	0.020	mg/L-N	1.57	105	90-110			
General Chemistry Parameters											
Blank Analyzed: 04/29/10 (Lab Number:10D2797-BLK1, Batch: 10D2797)											
Total Organic Carbon			1.0	0.4	mg/L	ND					
LCS Analyzed: 04/29/10 (Lab Number:10D2797-BS1, Batch: 10D2797)											
Total Organic Carbon		60.0	1.0	0.4	mg/L	55.2	92	90-110			
Duplicate Analyzed: 04/30/10 (Lab Number:10D2797-DUP2, Batch: 10D2797)											
QC Source Sample: RTD1981-03											
Total Organic Carbon	6.07		1.0	0.4	mg/L	6.07			0	20	
General Chemistry Parameters											
Blank Analyzed: 04/29/10 (Lab Number:10D2805-BLK1, Batch: 10D2805)											
Sulfide			1.0	0.7	mg/L	ND					
LCS Analyzed: 04/29/10 (Lab Number:10D2805-BS1, Batch: 10D2805)											
Sulfide		10.0	1.0	0.7	mg/L	9.20	92	90-110			
Duplicate Analyzed: 04/29/10 (Lab Number:10D2805-DUP1, Batch: 10D2805)											
QC Source Sample: RTD1981-06											
Sulfide	ND		1.0	0.7	mg/L	ND				20	
Matrix Spike Analyzed: 04/29/10 (Lab Number:10D2805-MS1, Batch: 10D2805)											
QC Source Sample: RTD1981-07											
Sulfide	ND	5.00	2.0	1.3	mg/L	5.60	112	40-150			D15
General Chemistry Parameters											
Blank Analyzed: 04/29/10 (Lab Number:10D2809-BLK1, Batch: 10D2809)											

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 04/29/10 (Lab Number:10D2809-BLK1, Batch: 10D2809)											
Alkalinity, Total			5.00	0.79	mg/L	0.93					J
LCS Analyzed: 04/29/10 (Lab Number:10D2809-BS1, Batch: 10D2809)											
Alkalinity, Total		100	5.00	0.79	mg/L	92.8	93	90-110			B
Duplicate Analyzed: 04/29/10 (Lab Number:10D2809-DUP1, Batch: 10D2809)											
QC Source Sample: RTD1981-07											
Alkalinity, Total	263		5.00	0.79	mg/L	264			0.6	20	B
Matrix Spike Analyzed: 04/29/10 (Lab Number:10D2809-MS1, Batch: 10D2809)											
QC Source Sample: RTD1981-06											
Alkalinity, Total	259	100	5.00	0.79	mg/L	324	65	22-128			B
General Chemistry Parameters											
Blank Analyzed: 04/29/10 (Lab Number:10D2820-BLK1, Batch: 10D2820)											
Nitrate			0.050	0.011	mg/L-N	ND					
LCS Analyzed: 04/29/10 (Lab Number:10D2820-BS1, Batch: 10D2820)											
Nitrate		1.50	0.050	0.011	mg/L-N	1.64	110	90-110			
General Chemistry Parameters											
Blank Analyzed: 04/29/10 (Lab Number:10D2825-BLK1, Batch: 10D2825)											
Nitrite			0.050	0.020	mg/L-N	ND					
LCS Analyzed: 04/29/10 (Lab Number:10D2825-BS1, Batch: 10D2825)											
Nitrite		1.50	0.050	0.020	mg/L-N	1.53	102	90-110			
General Chemistry Parameters											
Blank Analyzed: 04/30/10 (Lab Number:10D2869-BLK1, Batch: 10D2869)											
Total Organic Carbon			1.0	0.4	mg/L	ND					
LCS Analyzed: 04/30/10 (Lab Number:10D2869-BS1, Batch: 10D2869)											
Total Organic Carbon		60.0	1.0	0.4	mg/L	56.1	93	90-110			
General Chemistry Parameters											
Blank Analyzed: 04/30/10 (Lab Number:10D2918-BLK1, Batch: 10D2918)											
Nitrate			0.020	0.011	mg/L-N	ND					
LCS Analyzed: 04/30/10 (Lab Number:10D2918-BS1, Batch: 10D2918)											
Nitrate		1.50	0.020	0.011	mg/L-N	1.52	101	90-110			

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Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Blank Analyzed: 04/30/10 (Lab Number:10D2919-BLK1, Batch: 10D2919)											
Nitrite			0.020	0.020	mg/L-N	ND					
LCS Analyzed: 04/30/10 (Lab Number:10D2919-BS1, Batch: 10D2919)											
Nitrite		1.50	0.020	0.020	mg/L-N	1.44	96	90-110			
General Chemistry Parameters											
Blank Analyzed: 05/03/10 (Lab Number:10E0120-BLK1, Batch: 10E0120)											
Sulfide			1.0	0.7	mg/L	ND					
LCS Analyzed: 05/03/10 (Lab Number:10E0120-BS1, Batch: 10E0120)											
Sulfide		10.0	1.0	0.7	mg/L	9.20	92	90-110			
Matrix Spike Analyzed: 05/03/10 (Lab Number:10E0120-MS1, Batch: 10E0120)											
QC Source Sample: RTD2095-01											
Sulfide	ND	5.00	2.0	1.3	mg/L	6.40	128	40-150			
General Chemistry Parameters											
Blank Analyzed: 05/03/10 (Lab Number:10E0121-BLK1, Batch: 10E0121)											
Alkalinity, Total			5.00	0.79	mg/L	ND					
LCS Analyzed: 05/03/10 (Lab Number:10E0121-BS1, Batch: 10E0121)											
Alkalinity, Total		100	5.00	0.79	mg/L	97.8	98	90-110			
Duplicate Analyzed: 05/03/10 (Lab Number:10E0121-DUP1, Batch: 10E0121)											
QC Source Sample: RTD2095-03											
Alkalinity, Total	247		5.00	0.79	mg/L	243			2	20	
Matrix Spike Analyzed: 05/03/10 (Lab Number:10E0121-MS1, Batch: 10E0121)											
QC Source Sample: RTD2095-04											
Alkalinity, Total	243	100	5.00	0.79	mg/L	314	71	22-128			
General Chemistry Parameters											
Blank Analyzed: 05/04/10 (Lab Number:10E0130-BLK1, Batch: 10E0130)											
Total Organic Carbon			1.0	0.4	mg/L	ND					
LCS Analyzed: 05/04/10 (Lab Number:10E0130-BS1, Batch: 10E0130)											
Total Organic Carbon		60.0	1.0	0.4	mg/L	56.2	94	90-110			
Duplicate Analyzed: 05/04/10 (Lab Number:10E0130-DUP2, Batch: 10E0130)											
QC Source Sample: RTD2095-03											
Total Organic Carbon	2.13		1.0	0.4	mg/L	2.04			4	20	

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
General Chemistry Parameters											
Matrix Spike Analyzed: 05/04/10 (Lab Number:10E0130-MS2, Batch: 10E0130)											
QC Source Sample: RTD2095-04											
Total Organic Carbon	1.84	20.0	1.0	0.4	mg/L	19.6	89	54-131			

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LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Anions by EPA Method 300.0											
Blank Analyzed: 04/29/10 (Lab Number:10D2845-BLK1, Batch: 10D2845)											
Sulfate			2.00	0.35	mg/L	ND					
LCS Analyzed: 04/29/10 (Lab Number:10D2845-BS1, Batch: 10D2845)											
Sulfate		20.0	2.00	0.35	mg/L	20.9	105	90-110			
Matrix Spike Analyzed: 04/29/10 (Lab Number:10D2845-MS1, Batch: 10D2845)											
QC Source Sample: RTD1981-07											
Chloride	2.00E9	50.0	1.00	0.56	mg/L	2.00E9	0	73-114			M8
Sulfate	168	50.0	4.00	0.70	mg/L	218	100	75-125			D08
Matrix Spike Dup Analyzed: 04/29/10 (Lab Number:10D2845-MSD1, Batch: 10D2845)											
QC Source Sample: RTD1981-07											
Chloride	2.00E9	50.0	1.00	0.56	mg/L	2.00E9	0	73-114	0	20	M8
Sulfate	168	50.0	4.00	0.70	mg/L	220	104	75-125	0.9	20	D08
Anions by EPA Method 300.0											
Blank Analyzed: 04/30/10 (Lab Number:10E0062-BLK1, Batch: 10E0062)											
Chloride			0.28	0.28	mg/L	ND					
LCS Analyzed: 04/30/10 (Lab Number:10E0062-BS1, Batch: 10E0062)											
Chloride		20.0	0.28	0.28	mg/L	19.6	98	90-110			
Matrix Spike Analyzed: 04/30/10 (Lab Number:10E0062-MS1, Batch: 10E0062)											
QC Source Sample: RTD1981-07											
Chloride	1460	500	5.60	5.64	mg/L	1900	89	73-114			D08
Sulfate	186	500	7.00	6.98	mg/L	707	104	75-125			D04
Matrix Spike Dup Analyzed: 04/30/10 (Lab Number:10E0062-MSD1, Batch: 10E0062)											
QC Source Sample: RTD1981-07											
Chloride	1460	500	5.60	5.64	mg/L	1880	84	73-114	1	20	D08
Sulfate	186	500	7.00	6.98	mg/L	714	106	75-125	1	20	D04
Anions by EPA Method 300.0											
Blank Analyzed: 05/03/10 (Lab Number:10E0146-BLK1, Batch: 10E0146)											
Chloride			0.50	0.28	mg/L	ND					
LCS Analyzed: 05/03/10 (Lab Number:10E0146-BS1, Batch: 10E0146)											
Chloride		20.0	0.50	0.28	mg/L	18.5	92	90-110			
Anions by EPA Method 300.0											
Blank Analyzed: 05/03/10 (Lab Number:10E0148-BLK1, Batch: 10E0148)											

Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY
2055 Niagara Falls Blvd. Ste#3
Niagara Falls, NY 14304

SDG Number: RTD1981

Project: GM-Lockport NY Facility
Project Number: GM- Lockport

Received: 04/28/10-04/30/10
Reported: 05/14/10 16:50

LABORATORY QC DATA

Analyte	Source Result	Spike Level	RL	MDL	Units	Result	% REC	% REC Limits	% RPD	RPD Limit	Data Qualifiers
Anions by EPA Method 300.0											
Blank Analyzed: 05/03/10 (Lab Number:10E0148-BLK1, Batch: 10E0148)											
Chloride			0.50	0.28	mg/L	ND					
Sulfate			2.00	0.35	mg/L	ND					
LCS Analyzed: 05/03/10 (Lab Number:10E0148-BS1, Batch: 10E0148)											
Chloride		20.0	0.50	0.28	mg/L	18.9	94	90-110			
Sulfate		20.0	2.00	0.35	mg/L	19.5	97	90-110			
Anions by EPA Method 300.0											
Blank Analyzed: 05/04/10 (Lab Number:10E0278-BLK1, Batch: 10E0278)											
Chloride			0.50	0.28	mg/L	ND					
LCS Analyzed: 05/04/10 (Lab Number:10E0278-BS1, Batch: 10E0278)											
Chloride		20.0	0.50	0.28	mg/L	19.5	98	90-110			

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jennifer Daucle	Lab PM: Paul Morrow	Carrier Tracking No(s):	COC No: 1
Client Contact: Kathleen Willy	Phone: 716 570 5983	E-Mail: Paul.Morrow@testamericainc.com		Page: 1
Company: Conestoga-Rovers & Assoc Inc - Niagara Falls, NY				Job #: 21005546
Address: 2055 Niagara Falls Blvd. Ste#3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 10			
State, Zip: NY, 14304				
Phone: 716-297-6150	PO #:			
Email: kwilly@craworld.com	WO #: RSK0775			
Project Name: GM- Lockport	Project #:			
Site: Delphi 21.005565546	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water, s=solid, o=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Nitrate::Nitrite	Alk	T-Metals	Sulfide	Voas::RSK175::TOC	Voas	TOC	Voas	Cl::SO4					Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	I	Z	D	C	A	A	A	A	I					18	
MW-14	4/27/10	11:30	G	W			1	1	1	1	3	3	2	3	3					18	
MW-12	4/28/10	10:30	G	W			1	1	1	1	3	3	2	3	3					18	
MW-13	4/28/10	12:30	G	W			1	1	1	1	3	3	2	3	3					18	
MW-11	4/28/10	1:30pm	G	W			1	1	1	1	3	3	2	3	3					18	
MW-15	4/28/10	3:15pm	G	W			1	1	1	1	3	3	2	3	3					18	
MW-10	4/28/10	5:00	G	W			1	1	1	1	3	3	2	3	3					18	
DUP	4/28/10	12:00	G	W			1	1	1	1	3	3	2	3	3					18	
				W			1	1	1	1	3	3	2	3	3					18	
				W			1	1	1	1	3	3	2	3	3					18	
				W			1	1	1	1	3	3	2	3	3					18	
				W								3								3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jennifer Daucle	4/28/10 1545	GRA		4/28/10 1545	
Relinquished by	Date/Time 1745	Company	Received by	Date/Time 1745	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No:

Cooler Temperature(s) °C and Other Remarks: 6.0°C

Chain of Custody Record

TestAmerica

Client Information	Sampler: Jen Davide	Lab PM: Paul Morrow	Carrier Tracking No(s):	COC No.: _2
Client Contact: Kathleen Wily	Phone: (716) 570-5983	E-Mail: Paul.Morrow@testamericainc.com		Page: 2
Company: Conestoga-Rovers & Assoc Inc. - Niagara Falls, NY				Job #:
Address: 2055 Niagara Falls Blvd. Ste#3	Due Date Requested:			
City: Niagara Falls	TAT Requested (days): 10			
State, Zip: NY 14304				
Phone: 716-297-6150	PO #:			
Email: kwilly@craworld.com	WO #: RSK0775			
Project Name: GM- Lockport	Project #: 21005546			
Site: Delphi	SSOW#:			

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Nitrate::Nitrite	Alk	T-Metals	Sulfide	Voas::RSK175::TOC	Voas	TOC	Voas	Cl::SO4	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	I	Z	D	C	A	A	A	A	I	X	
				W												3	
MW-4	4/29/10	1430	G	W			1	1	1	1	3	3	2	3	3	18	
MW-7	4/29/10	1530	G	W			1	1	1	1	3	3	2	3	3		
MW-9	4/30/10	1030	G	W			1	1	1	1	3	3	2	3	3		
MW-8	4/30/10	1230	G	W			1	1	1	1	3	3	2	3	3		

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Jennifer Davide	4/30/10 1710			4/30/10 1310	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.2 °C