



**CONESTOGA-ROVERS
& ASSOCIATES**

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March 3, 2010

Reference No. 017360-10

Ms. Darlene Stringer
Michigan Department of Natural Resources and Environment
Remediation and Redevelopment Division
350 Ottawa Avenue NW, Unit 10
Grand Rapids, Michigan 49503-2341

Dear Ms. Stringer:

Re: October 2009 Semi-Annual Groundwater Monitoring Report
Grand Rapids Metal Plant
Wyoming, Michigan

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) has prepared this October 2009 Semi-Annual Monitoring Report (Report), on behalf of Motors Liquidation Company (MLC) (formerly known as General Motors Corporation), for the Grand Rapids Metal Plant located at 300 36th Street S.W. in Wyoming, Michigan (Site). The purpose of the Report is to present the results of the October 2009 semi-annual groundwater sampling event conducted at the Site. Sampling was conducted in accordance with the 2005 Groundwater Monitoring Work Plan submitted on April 12, 2005 to the Michigan Department of Natural Resources and Environment (MDNRE) and verbally approved on April 28, 2005.

2.0 GROUNDWATER MONITORING PROGRAM

The scope of work (SOW) for the semi-annual groundwater monitoring program conducted at the Site includes: the collection and analysis of groundwater/ water samples for Target Compound List (TCL) volatile organic compounds (VOCs) from existing monitoring wells and culvert locations; the collection and analysis of groundwater samples from monitoring wells 85-3, 85-5B, 85-6, and 86-1 for TCL semi-volatile organic compounds (SVOCs); the measurement of static groundwater levels in all monitoring wells; and the measurement of free product levels in select Site monitoring wells. Based on discussions with the MDNRE, the groundwater treatment system was shut down indefinitely in February 2005.

The results of the implementation of the SOW are presented in the subsections below.



March 3, 2010

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Reference No. 017360-10

2.1 OCTOBER 2009 SEMI-ANNUAL SAMPLE COLLECTION AND ANALYSIS

A total of 46 groundwater samples, including quality assurance/quality control (QA/QC) samples, were collected from monitoring wells MW1-03 through MW7-03, MW8-04 through MW10-04, MW11S-05, MW11D-04, MW13-04 through MW15-04, MW17-06, 85-1, 85-2, 85-3, 85-5B, 85-6, 85-7, 86-1, 86-3, 87-1, 87-2, 87-4, 87-5, 87-8, 87-9, 87-10, 87-11, 87-13, 88-2, 88-3, 88-4, purge well 86-2, and from culvert locations C-1, C-2, and C-3 between October 6, 2009 and October 8, 2009 for analysis of TCL VOCs. In addition, samples collected from monitoring wells 85-3, 85-5B, 85-6, and 86-1 were analyzed for TCL SVOCs. Table 1 presents a summary of the samples collected during the October 2009 semi-annual sampling event.

Prior to groundwater sample collection, static water levels were measured and recorded for the monitoring wells. Well caps were unlocked and removed allowing the water levels in the wells to stabilize. Static water levels and free product levels were measured to the top of each riser. Table 2 presents static water levels for October 6, 2009. No measurable free product was detected in monitoring wells 85-3, 85-5B, 85-6, or 86-1 during the October 2009 semi-annual sampling event. Figure 1 presents the approximate groundwater flow direction for October 6, 2009.

Dedicated ¼-inch diameter polyethylene tubing is utilized in each of the wells to be sampled. The bottom intake of the tubing was set in the middle of the screened interval for each of the wells. All wells were purged with a peristaltic pump using low-flow purge (LFP) techniques. Wells were purged between 100 and 200 mL per minute with continuous monitoring to confirm less than 0.3 feet of drawdown of the water level. Groundwater quality measurements were recorded in consecutive timed intervals using a Horiba and a HF Scientific turbidity meter. Groundwater quality parameters included pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity. Upon groundwater stabilization, based on three consecutive similar readings, groundwater samples were collected. Groundwater quality measurements are presented in Table 3.

Water samples collected from the culvert locations C-1, C-2 and C-3 were collected using a new disposable polyethylene sampling bottle in each location.

Collected groundwater samples and water samples were containerized in laboratory-provided containers, labeled, placed on ice, and shipped under chain-of-custody (COC) protocol to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. Table 4 presents an analytical summary of parameters for groundwater and water samples collected during the October 2009 semi-annual sampling event. Figure 2 presents select TCL VOC concentrations in groundwater and water samples collected during the October 2009 semi-annual sampling event. Figures 3, 4, 5, and 6 present concentration isocontours for trichloroethene (TCE), tetrachloroethene (PCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride (VC), respectively, in groundwater samples collected during the October 2009 monitoring event.



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Reference No. 017360-10

Analytical data is presented in Attachment A. A QA/QC data validation was conducted on the analytical data and a memorandum summarizing the results of the data validation is presented in Attachment B. Historical analytical results are presented in Attachment C.

3.0 ADDITIONAL MONITORING

The April 2010 semi-annual groundwater sampling event will not be conducted in April. It is anticipated that the existing monitoring wells will be sampled in Summer/Fall 2010 in conjunction with the implementation of an evaluation and investigation of the Grand Rapids Metal Plant property as a whole.

Please contact the undersigned at (517) 316-2397 or David Favero at (217) 522-6714, should you have any questions regarding this Report.

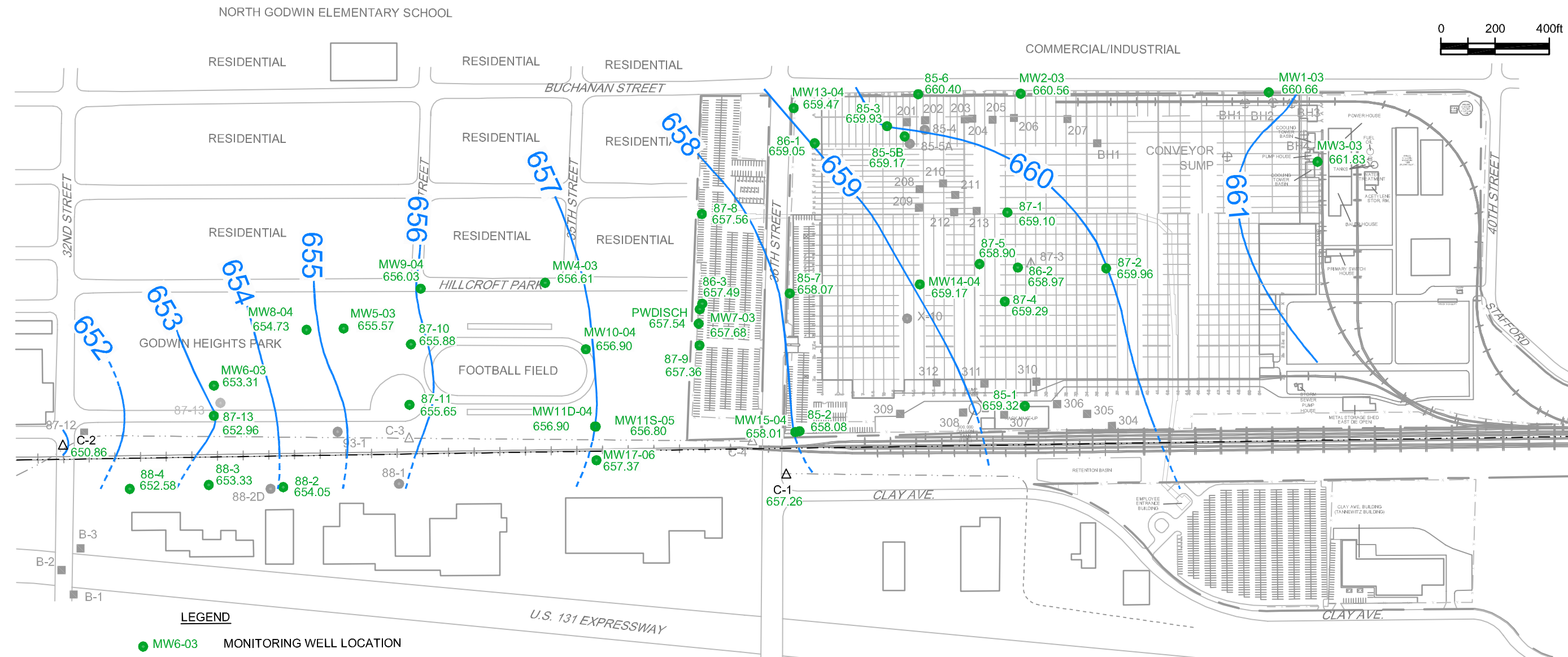
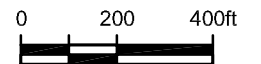
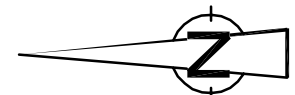
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

for Leah K. Clark
for Jennifer L. Quigley

KTA/lkc/12/Det.
Encl.

c.c.: David Favero, MLC



LEGEND

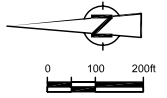
- MW6-03 MONITORING WELL LOCATION
- PWDISCH PURGE WELL LOCATION
- 309 SOIL BORING LOCATION
- X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 CULVERT LOCATION
- △ 87-3 AIR PURGE WELL
- ⊕ BH1 APPROXIMATE LOCATION OF DEWATERING WELLS
- APPROXIMATE SITE BOUNDARY
- - - FENCE
- +— RAILROAD
- · - · - COLE DRAIN
- 652— GROUNDWATER ELEVATION CONTOUR
- - -652- - - INFERRED ELEVATION CONTOUR
- 653.31 GROUNDWATER ELEVATION

SOURCE: EDI ENGINEERING & SCIENCE,
JUNE 1987 AND JUNE 1988
AND EARTH TECH, SEPTEMBER 2001.

figure 1
OCTOBER 6, 2009
GROUNDWATER CONTOURS
GRAND RAPIDS METAL PLANT
Wyoming, Michigan



NO	Revision	Date	Initial



LEGEND

----- COLE DRAIN

TCL VOC Criteria (mg/L) (1)

- o,t,t-1,2-Dichloroethene 0.07
- Tetrachloroethene 0.005
- Trichloroethene 0.005
- Vinyl chloride 0.02

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

DRAWING STATUS

Status	Date	Initial
Approved		

**GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN**

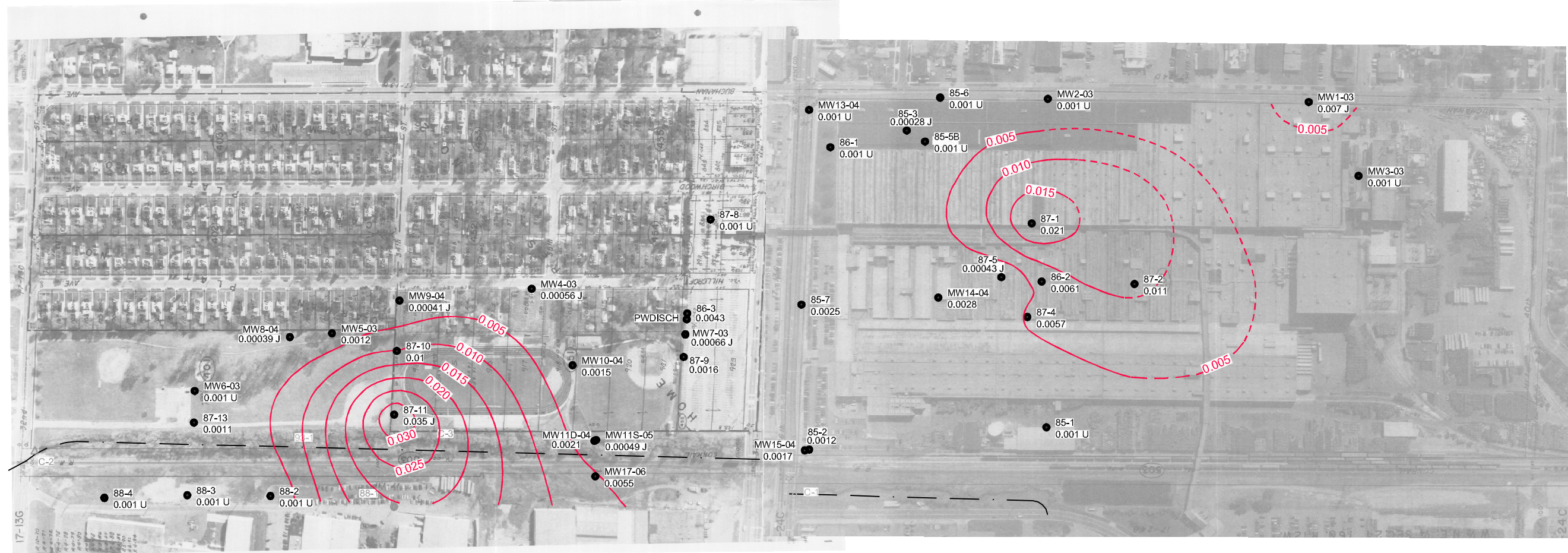
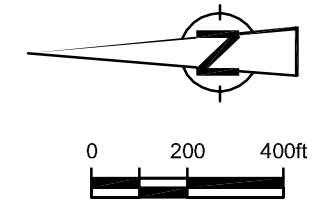
SELECT VOC CONCENTRATIONS - OCTOBER 2009



Source Reference:

Project Manager: J.O.	Reviewed By: L.C.	Date: APRIL 2009
Scale: 1"=200'	Project No: 017360-10	Report No: STRI012 Drawing No: figure 2





LEGEND

- MW6-03 MONITORING WELL LOCATION
- PWDISCH PURGE WELL LOCATION
- X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 CULVERT LOCATION
- 0.005 — TRICHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- - - 0.005 - - - INFERRED TRICHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- - - - - COLE DRAIN

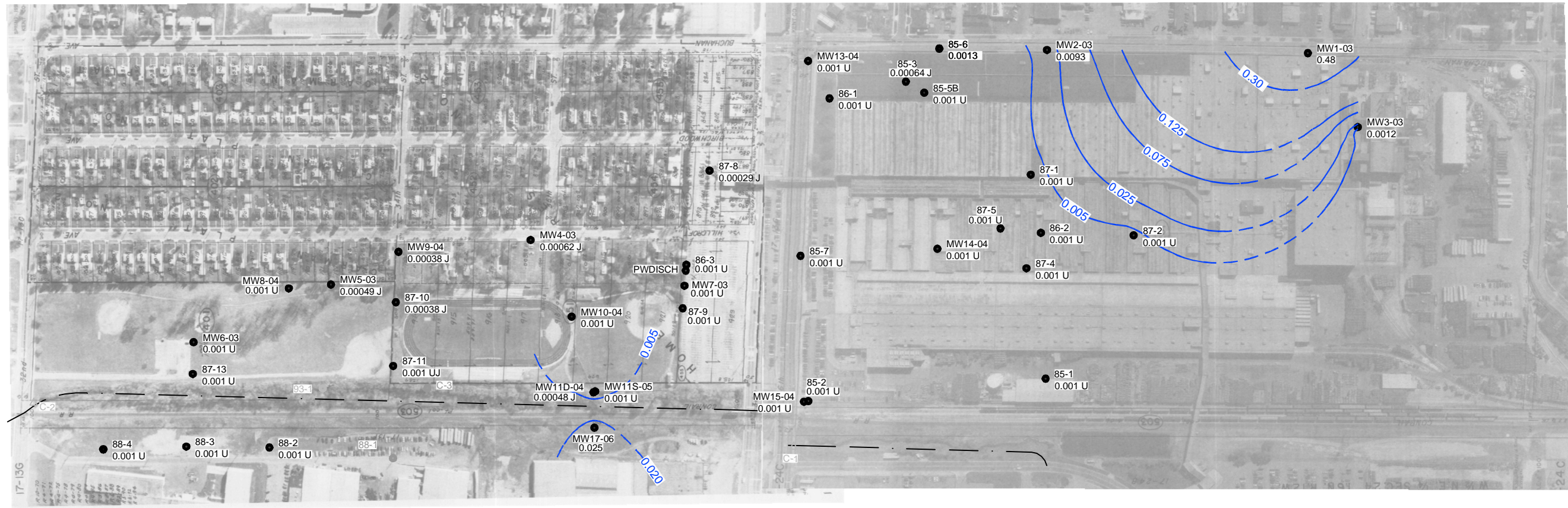
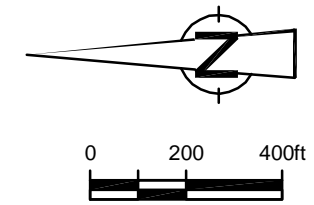
Parameter	Criteria (mg/L) (1)
Trichloroethene	0.005

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

figure 3

TRICHLOROETHENE ISOCONTOURS - OCTOBER 2009
 GRAND RAPIDS METAL PLANT
 Wyoming, Michigan





LEGEND

- MW6-03 MONITORING WELL LOCATION
- PWDISCH PURGE WELL LOCATION
- X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 CULVERT LOCATION
- 0.020 — TETRACHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- - - 0.020 - - - INFERRED TETRACHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- - - - - COLE DRAIN

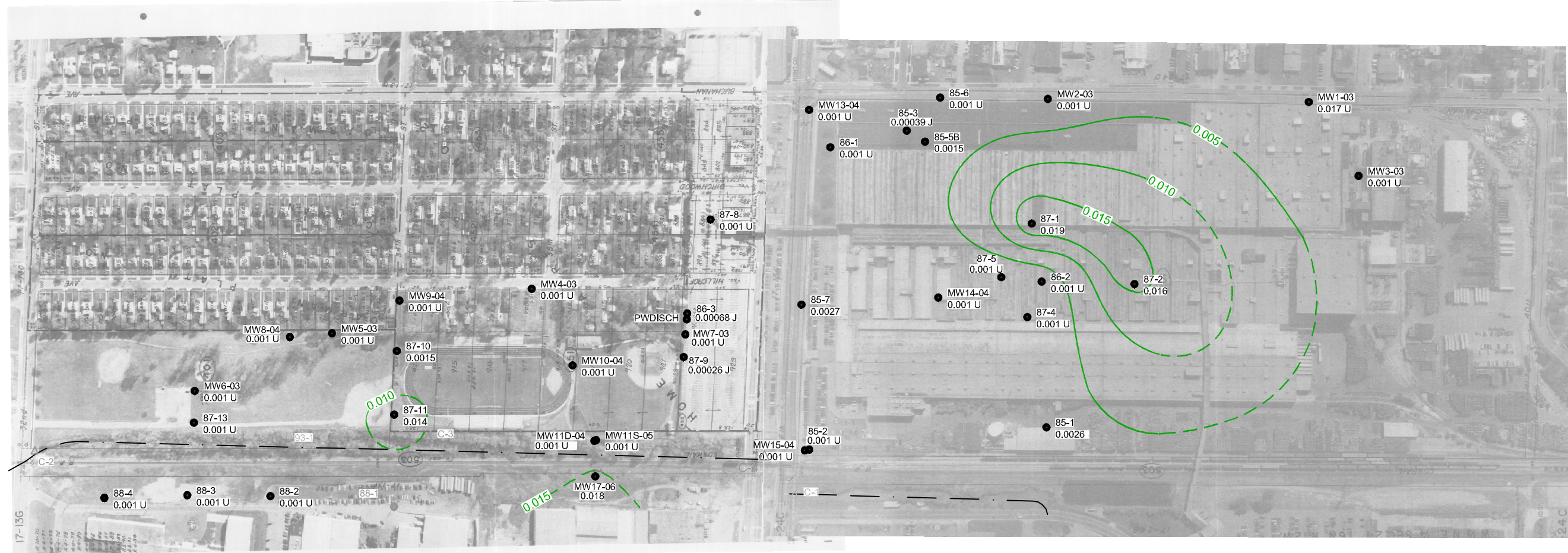
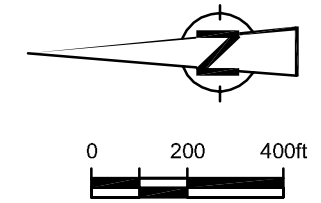
Parameter	Criteria (mg/L) (1)
Tetrachloroethene	0.005

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

figure 4

**TETRACHLOROETHENE ISOCONTOURS - OCTOBER 2009
GRAND RAPIDS METAL PLANT
Wyoming, Michigan**





LEGEND

- MW6-03 MONITORING WELL LOCATION
- PWDISCH PURGE WELL LOCATION
- X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 CULVERT LOCATION
- 0.005 — CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- - - 0.005 - - - INFERRED CIS-1,2-DICHLOROETHENE CONCENTRATION CONTOUR LINE (mg/L)
- - - - COLE DRAIN

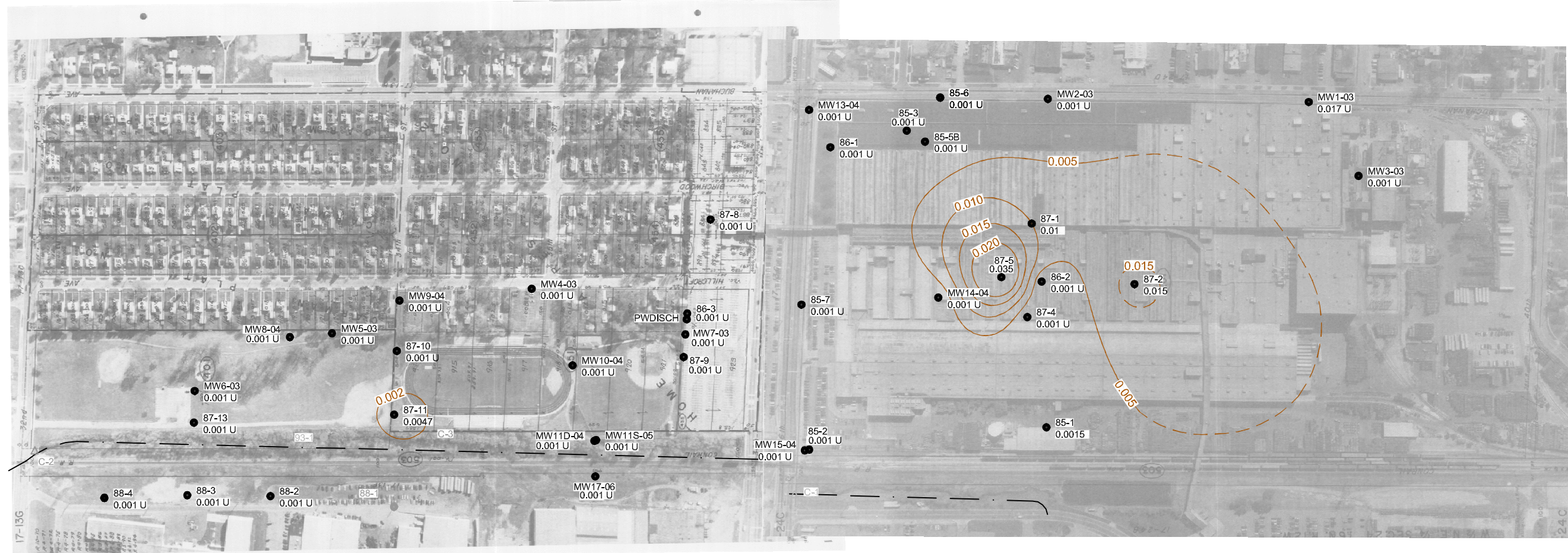
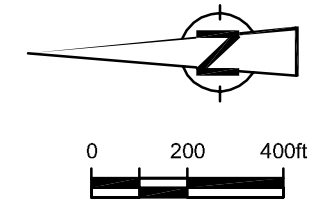
Parameter	Criteria (mg/L) ⁽¹⁾
Cis-1,2-Dichloroethene	0.070

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

figure 5

CIS-1,2-DICHLOROETHENE ISOCONTOURS - OCTOBER 2009
 GRAND RAPIDS METAL PLANT
 Wyoming, Michigan





LEGEND

- MW6-03 MONITORING WELL LOCATION
- PWDISCH PURGE WELL LOCATION
- X-10 DESTROYED/REMOVED MONITORING WELL LOCATION
- △ C-2 CULVERT LOCATION
- 0.020 — VINYL CHLORIDE CONCENTRATION CONTOUR LINE (mg/L)
- - - 0.020 - - - INFERRED VINYL CHLORIDE CONCENTRATION CONTOUR (mg/L)
- - - - - COLE DRAIN

Parameter	Criteria (mg/L) ⁽¹⁾
Vinyl Chloride	0.002

(1) MICHIGAN ACT 451, PART 201 RESIDENTIAL DRINKING WATER CRITERIA

figure 6

VINYL CHLORIDE ISOCONTOURS - OCTOBER 2009
 GRAND RAPIDS METAL PLANT
 Wyoming, Michigan



TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<u>Sample Identification</u>	<u>Sample Location</u>	<u>Matrix</u>	<u>QC Sample</u>	<u>Analysis</u>
GW-17360-100609-DR-276	C-1	Water		1
GW-17360-100609-DR-277	C-1	Water	Duplicate (-276)	1
GW-17360-100609-DR-278	C-2	Water		1
GW-17360-100609-DR-279	C-3	Water		1
GW-17360-100609-DR-280	MW17-06	Water	MS/MSD	1
GW-17360-100609-DR-281	85-7	Water		1
GW-17360-100609-DR-282	MW15-04	Water		1
GW-17360-100609-DR-283	85-2	Water		1
GW-17360-100609-DR-284	87-9	Water		1
GW-17360-100609-DR-285	MW7-03	Water		1
GW-17360-100609-DR-286	86-3	Water		1
GW-17360-100609-DR-287	87-8	Water		1
GW-17360-100609-DR-288	MW2-03	Water		1
GW-17360-100609-DR-289	MW1-03	Water		1
TB-17360-100609	Trip Blank	Water		1
GW-17360-100609-DR-290	85-6	Water		2
GW-17360-100609-DR-291	85-6	Water	Duplicate (-290)	2
TB-17360-100709	Trip Blank	Water		1
GW-17360-100709-DR-292	85-5B	Water		2
GW-17360-100709-DR-293	85-3	Water		2
GW-17360-100709-DR-294	86-1	Water		2
GW-17360-100709-DR-295	MW13-04	Water		1
GW-17360-100709-DR-296	MW14-04	Water		1
GW-17360-100709-DR-297	87-5	Water		1
GW-17360-100709-DR-298	86-2	Water		1
GW-17360-100709-DR-299	87-4	Water		1
GW-17360-100709-DR-300	87-2	Water		1
GW-17360-100709-DR-301	87-1	Water		1
GW-17360-100709-DR-302	MW3-03	Water		1
GW-17360-100709-DR-303	85-1	Water		1
GW-17360-100809-DR-304	88-2	Water		1
GW-17360-100809-DR-305	88-3	Water		1
GW-17360-100809-DR-306	88-3	Water	Duplicate (-305)	1
GW-17360-100809-DR-307	88-4	Water		1
GW-17360-100809-DR-308	87-10	Water		1
GW-17360-100809-DR-309	87-11	Water	MS/MSD	1
GW-17360-100809-DR-310	87-13	Water		1
GW-17360-100809-DR-311	MW6-03	Water		1
GW-17360-100809-DR-312	MW9-04	Water		1
GW-17360-100809-DR-313	MW8-04	Water		1
GW-17360-100809-DR-314	MW5-03	Water		1
GW-17360-100809-DR-315	MW4-03	Water		1
GW-17360-100809-DR-316	MW11D-04	Water		1
GW-17360-100809-DR-317	MW11S-05	Water		1
GW-17360-100809-DR-318	MW10-04	Water		1
GW-17360-100809-DR-319	MW10-04	Water	Duplicate (-318)	1

Notes:

- TCL - Target Compound List
- VOC - Volatile Organic Compounds
- SVOC - Semi-Volatile Organic Compounds
- QC - Quality Control
- MS/MSD - Matrix Spike /Matrix Spike Duplicate
- 1 - Sampling analysis includes TCL VOCs.
- 2 - Sampling analysis includes TCL SVOCs and TCL VOCs.

TABLE 2

STATIC WATER LEVELS AND FREE PRODUCT THICKNESS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<u>Location Identification</u>	<u>Thickness of Product (ft.)</u>	<u>Depth to Water (ft. BTOR)⁽¹⁾</u>
85-1		15.71
85-2		13.55
85-3	(2)	20.98
85-5B	(2)	21.66
85-6	(2)	19.19
85-7		19.77
86-1	(2)	20.87
86-2		21.97
86-3		18.31
87-1		21.64
87-2		20.77
87-4		21.62
87-5		21.49
87-8		19.22
87-9		15.77
87-10		11.88
87-11		10.60
87-13		10.61
88-2		11.75
88-3		11.03
88-4		8.62
93-1		--
PWDISCH		20.25
C-1		5.35
C-2		7.95
C-3		--
MW1-03		18.02
MW2-03		20.04
MW3-03		14.91
MW4-03		22.51
MW5-03		20.25
MW6-03		12.08
MW7-03		17.11
MW8-04		19.60
MW9-04		21.97
MW10-04		9.39
MW11D-04		6.37
MW11S-05		6.78
MW13-04		18.79
MW14-04		21.88
MW15-04		13.68
MW17-06		7.34

Notes:

- (1) Depth to water measurements collected on October 6, 2009
(2) No product was observed in the wells.
-- No water level measurement was taken.
ft. BTOR- Feet below top of riser

TABLE 3

GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<i>Monitoring Well Location</i>	<i>Water Level (ft. BTOR)</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>pH (Units)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>ORP (mv)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
MW1-03	18.03	15:45	120	7.16	14.85	0.876	116	2.18	1.91
	18.03	15:50	120	7.14	14.95	0.877	114	2.15	NA
	18.03	15:55	120	7.14	14.82	0.876	115	2.22	1.45
MW2-03	20.05	15:00	120	7.13	15.31	1.760	101	2.31	2.93
	20.05	15:05	120	7.15	15.45	1.760	103	2.27	NA
	20.05	15:10	120	7.13	15.30	1.760	106	2.38	1.53
MW3-03	14.94	12:20	100	7.37	15.40	1.016	73	3.30	1.19
	14.94	12:25	100	7.34	15.40	1.019	74	3.31	NA
	14.94	12:30	100	7.33	15.40	1.016	75	3.31	2.10
MW4-03	22.52	13:20	150	7.31	16.20	1.680	115	3.49	1.31
	22.52	13:25	150	7.28	16.20	1.680	115	3.56	NA
	22.52	13:30	150	7.28	16.20	1.680	115	3.62	1.10
MW5-03	20.26	11:35	150	7.40	14.20	1.970	96	2.72	0.96
	20.26	11:40	150	7.37	14.30	1.970	96	2.70	NA
	20.26	11:45	150	7.37	14.30	1.960	95	2.65	1.34
MW6-03	12.08	10:50	150	7.67	13.70	1.442	51	4.33	0.92
	12.08	10:55	150	7.66	13.60	1.466	54	4.36	NA
	12.08	11:00	150	7.65	13.7	1.485	56	4.31	0.82
MW7-03	17.15	14:00	120	7.14	17.22	3.970	95	2.25	1.14
	17.15	14:05	120	7.15	17.33	3.980	98	2.28	NA
	17.15	14:10	120	7.16	17.27	3.990	104	2.24	0.98
MW8-04	19.60	11:20	150	7.54	14.00	2.050	60	3.73	0.57
	19.60	11:25	150	7.51	14.20	2.060	60	3.87	NA
	19.60	11:30	150	7.51	14.20	2.060	60	3.84	0.69

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 3
GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<i>Monitoring Well Location</i>	<i>Water Level (ft. BTOR)</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>pH (Units)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>ORP (mv)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
MW9-04	21.98	11:05	120	7.27	15.84	2.100	89	3.31	1.39
	21.98	11:10	120	7.27	15.85	2.090	89	3.30	NA
	21.98	11:15	120	7.31	15.74	2.090	90	3.35	0.45
MW10-04	9.41	13:45	150	7.38	15.50	1.630	98	0.74	0.83
	9.41	13:50	150	7.38	15.60	1.630	90	0.66	NA
	9.41	13:55	150	7.38	15.60	1.640	86	0.63	NA
	9.41	14:00	150	7.37	15.70	1.640	81	0.60	0.87
MW11S-05	6.81	13:45	100	7.19	17.41	1.680	30	0.16	1.43
	6.81	13:50	100	7.15	17.51	1.680	25	0.15	NA
	6.81	13:55	100	7.14	17.54	1.680	20	0.14	1.52
MW11D-04	6.40	13:30	120	7.50	14.95	1.990	32	0.20	1.33
	6.40	13:35	120	7.46	14.85	1.960	33	0.20	NA
	6.40	13:40	120	7.46	14.71	1.950	29	0.19	0.94
MW13-04	19.26	11:20	150	7.40	14.10	2.30	54	4.10	4.90
	19.26	11:25	150	7.39	14.10	2.31	57	3.86	NA
	19.26	11:30	150	7.40	14.20	2.30	59	3.84	1.73
MW14-04	21.9	8:10	150	7.26	17.80	1.491	30	0.56	1.04
	21.9	8:15	150	7.27	17.78	1.490	34	0.54	NA
	21.9	8:20	150	7.29	17.78	1.490	39	0.52	1.14
MW15-04	13.71	12:35	100	7.02	16.40	2.260	-43	0.56	8.21
	13.71	12:40	100	7.06	16.10	2.230	-31	0.53	6.26
	13.71	12:45	100	7.07	16.00	2.200	-20	0.55	5.30
	13.71	12:50	100	7.10	15.40	2.190	-9	0.62	4.60
	13.71	12:55	100	7.10	15.40	2.250	-8	0.63	NA
	13.71	13:00	100	7.07	15.20	2.320	-10	0.59	3.97
MW17-06	7.34	10:25	100	6.62	14.00	2.030	56	0.42	1.34
	7.34	10:30	100	6.75	14.10	2.040	52	0.33	NA
	7.34	10:35	100	6.82	14.10	2.040	48	0.26	NA
	7.34	10:40	100	6.88	14.10	2.050	39	0.25	NA
	7.34	10:45	100	6.92	14.10	2.050	31	0.22	NA
	7.34	10:50	100	6.95	14.10	2.060	11	0.21	NA
	7.34	10:55	100	6.97	14.10	2.060	-2	0.2	NA
	7.34	11:00	100	6.98	14.10	2.060	-6	0.19	0.71

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 3

GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<i>Monitoring Well Location</i>	<i>Water Level (ft. BTOR)</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>pH (Units)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>ORP (mv)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
85-1	15.85	12:55	120	7.20	13.97	0.905	-150	0.16	2.11
	15.85	13:00	120	7.17	13.91	0.900	-148	0.14	NA
	15.85	13:05	120	7.15	13.90	0.899	-147	0.14	1.77
85-2	13.58	13:15	100	6.97	15.40	2.640	-20	0.20	1.70
	13.58	13:20	100	6.95	15.40	2.620	-23	0.14	NA
	13.58	13:25	100	6.93	15.40	2.630	-25	0.13	NA
	13.58	13:30	100	6.92	15.40	2.630	-27	0.12	1.31
85-3	20.77	09:00	100	7.25	18.50	1.232	-161	0.16	5.47
	20.77	09:05	100	7.25	18.50	1.234	-166	0.16	4.08
	20.77	09:10	100	7.23	18.50	1.233	-170	0.15	3.32
85-5B	21.11	08:00	100	7.81	21.00	1.386	-146	0.25	3.14
	21.11	08:05	100	7.80	21.00	1.413	-177	0.2	NA
	21.11	08:10	100	7.73	21.10	1.447	-189	0.19	NA
	21.11	08:15	100	7.62	21.10	1.485	-193	0.15	NA
	21.11	08:20	100	7.49	21.20	1.550	-191	0.14	NA
	21.11	08:25	100	7.37	21.10	1.600	-184	0.13	NA
	21.11	08:30	100	7.31	21.10	1.630	-180	0.14	NA
	21.11	08:35	100	7.30	21.00	1.650	-177	0.14	2.63
85-6	19.16	15:30	150	7.50	14.70	2.240	56	3.61	20.6
	19.16	15:35	150	7.48	14.30	2.190	17	3.48	15.1
	19.16	15:40	150	7.46	14.20	2.140	9	3.73	13.5
	19.16	15:45	150	7.45	14.20	2.120	11	3.76	10.3
	19.16	15:50	150	7.43	14.20	2.120	9	3.70	9.63
	19.16	15:55	150	7.43	14.30	2.100	9	3.53	9.49
85-7	19.78	12:40	150	7.04	18.70	1.670	6	0.20	2.94
	19.78	12:45	150	7.03	18.66	1.670	2	0.20	NA
	19.78	12:50	150	7.04	18.67	1.670	-1	0.18	1.20
86-1	20.87	10:00	100	7.31	13.50	1.920	-28	2.53	32.80
	20.87	10:10	100	7.35	13.30	1.930	-25	2.65	16.50
	20.87	10:15	100	7.35	13.40	1.930	-23	2.29	13.10
	20.87	10:20	100	7.37	13.50	1.920	-20	2.46	9.91
	20.87	10:25	100	7.38	13.60	1.920	-18	2.04	7.20
	20.87	10:30	100	7.42	13.60	1.930	-15	2.02	7.32
	20.87	10:35	100	7.44	13.60	1.930	-13	2.16	7.16

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 3
GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<i>Monitoring Well Location</i>	<i>Water Level (ft. BTOR)</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>pH (Units)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>ORP (mv)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
86-2	21.97	9:20	100	7.31	19.41	1.390	-83	1.84	24.1
	21.97	9:25	100	7.32	19.41	1.390	-82	1.85	23.4
	21.97	9:30	100	7.34	19.43	1.392	-76	1.91	22.8
86-3	19.81	14:05	100	7.34	18.30	1.940	-136	0.22	1.72
	19.81	14:10	100	7.36	18.30	1.930	-146	0.17	NA
	19.81	14:15	100	7.38	18.20	1.920	-143	0.16	NA
	19.81	14:20	100	7.37	18.20	1.910	-139	0.15	1.25
87-1	21.68	12:00	120	7.33	21.49	1.640	-109	0.13	1.67
	21.68	12:05	120	7.30	21.51	1.650	-107	0.13	NA
	21.68	12:10	120	7.33	21.51	1.650	-105	0.12	0.76
87-2	21.2	11:20	100	7.44	18.08	1.282	-200	0.14	7.01
	21.2	11:25	100	7.42	18.04	1.285	-198	0.15	5.09
	21.2	11:30	100	7.43	18.12	1.284	-196	0.14	3.43
87-4	21.9	10:10	120	7.50	18.52	1.466	-104	1.78	5.53
	21.9	10:15	120	7.42	18.49	1.477	-82	2.48	4.50
	21.9	10:20	120	7.42	18.50	1.478	-84	2.59	4.16
	21.9	10:25	120	7.42	18.59	1.478	-77	2.54	3.64
87-5	21.71	8:50	120	6.87	18.96	1.189	-149	0.16	2.25
	21.71	8:55	120	6.89	19.05	1.178	-158	0.15	NA
	21.71	9:00	120	6.91	19.04	1.187	-161	0.15	NA
	21.71	9:05	120	6.89	19.12	1.192	-166	0.14	2.28

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 3
GROUNDWATER QUALITY PARAMETERS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

<i>Monitoring Well Location</i>	<i>Water Level (ft. BTOR)</i>	<i>Time (hours:minutes)</i>	<i>Purge Rate (mL/per min.)</i>	<i>pH (Units)</i>	<i>Temperature (°C)</i>	<i>Conductivity (mS/cm)</i>	<i>ORP (mv)</i>	<i>DO (mg/L)</i>	<i>Turbidity (NTU)</i>
87-8	19.22	14:40	100	7.53	16.5	2.320	44	2.01	1.03
	19.22	14:45	100	7.47	16.4	2.340	55	2.42	NA
	19.22	14:50	100	7.43	16.5	2.370	63	2.51	NA
	19.22	14:55	100	7.36	16.4	2.400	74	3.11	NA
	19.22	15:00	100	7.34	16.3	2.410	79	3.20	NA
	19.22	15:05	100	7.32	16.3	2.420	83	3.32	1.02
87-9	15.78	13:45	120	7.27	17.30	1.327	37	0.29	0.49
	15.78	13:50	120	7.30	17.30	1.330	36	0.44	NA
	15.78	13:55	120	7.28	17.27	1.332	39	0.46	0.42
	15.78	14:00	120	7.29	17.29	1.334	42	0.48	0.64
87-10	11.90	9:50	120	7.33	16.11	1.740	36	0.16	0.62
	11.90	9:55	120	7.33	16.16	1.740	37	0.15	NA
	11.90	10:00	120	7.30	16.22	1.730	37	0.15	0.87
87-11	10.65	10:15	100	7.36	15.09	1.710	-30	0.14	2.19
	10.65	10:20	100	7.36	15.27	1.710	-34	0.12	NA
	10.65	10:25	100	7.35	15.36	1.710	-37	0.12	2.31
87-13	10.61	10:10	150	7.27	14.00	2.010	-98	0.20	4.44
	10.61	10:15	150	7.20	14.00	2.040	-86	0.15	NA
	10.61	10:20	150	7.19	14.00	2.050	-81	0.14	NA
	10.61	10:25	150	7.26	14.00	2.140	-81	0.13	1.87
88-2	11.73	8:50	150	7.32	15.40	1.444	-3	0.27	1.06
	11.73	8:55	150	7.30	15.40	1.468	2	0.21	NA
	11.73	9:00	150	7.29	15.40	1.474	5	0.18	NA
	11.73	9:05	150	7.28	15.30	1.478	7	0.17	NA
	11.73	9:10	150	7.27	15.30	1.480	9	0.16	0.50
88-3	11.03	9:05	150	7.43	16.04	0.816	95	3.05	1.01
	11.03	9:10	150	7.45	15.96	0.815	97	3.07	NA
	11.03	9:15	150	7.50	16.06	0.818	96	3.10	1.17
88-4	8.83	9:35	150	7.57	15.50	2.830	-10	0.16	2.18
	8.83	9:40	150	7.60	15.40	2.830	-12	0.15	NA
	8.83	9:45	150	7.62	15.50	2.830	-14	0.15	2.36

Notes:

ft. BTOR - feet below top of riser
NA - Not Available

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	85-1	85-2	85-3	85-5B	85-6	85-6	85-7	86-1	86-2	86-3	87-1	87-2	87-4	87-5
Sample Identification (GW-17360-)	100709-DR-303	100609-DR-283	100709-DR-293	100709-DR-292	100609-DR-290	100609-DR-291	100609-DR-281	100709-DR-294	100709-DR-298	100609-DR-286	100709-DR-301	100709-DR-300	100709-DR-299	100709-DR-297
Sample Date	10/7/2009	10/6/2009	10/7/2009	10/7/2009	10/6/2009	10/6/2009	10/6/2009	10/7/2009	10/7/2009	10/6/2009	10/7/2009	10/7/2009	10/7/2009	10/7/2009
Sample Type	<i>Units</i>													
	<i>Duplicate</i>													
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.0008 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.00018 J	0.00018 J	0.001 U	0.00042 J	0.00053 J	0.001 U	0.00025 J	0.00025 J	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.0026	0.001 U	0.00039 J	0.0015	0.001 U	0.001 U	0.0027	0.001 U	0.00068 J	0.019	0.016	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.00042 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Methyl Tert Butyl Ether	mg/L	0.005 U	0.005 U	0.0031 J	0.0016 J	0.0013 J	0.005 U	0.005 U	0.0029 J	0.00019 J	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.001 U	0.00064 J	0.001 U	0.0013	0.0013	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00038 J	0.001 U	0.001 U	0.0034	0.0033	0.001 U	0.0039
trans-1,3-Dichloropropene	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.0012	0.00028 J	0.001 U	0.001 U	0.0025	0.001 U	0.0061	0.0043	0.021	0.011	0.0057	0.00043 J
Trichlorofluoromethane (CFC-11)	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrchloroethane (Freon 113)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Vinyl chloride	mg/L	0.0015	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01	0.015	0.001 U	0.035
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.0014 J	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U

Notes:
U-Not present at or above the associated value.
J-Estimated concentration.
UJ-Estimated reporting limit.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		87-8	87-9	87-10	87-11	87-13	88-2	88-3	88-3	88-4	C-1	C-1	C-2	C-3	MW1-03
Sample Identification (GW-17360- Sample Date		100609-DR-287 10/6/2009	100609-DR-284 10/6/2009	100809-DR-308 10/6/2009	100809-DR-309 10/8/2009	100809-DR-310 10/8/2009	100809-DR-304 10/8/2009	100809-DR-305 10/8/2009	100809-DR-306 10/8/2009	100809-DR-307 10/8/2009	100609-DR-276 10/6/2009	100609-DR-277 10/6/2009	100609-DR-278 10/6/2009	100609-DR-279 10/6/2009	100609-DR-289 10/6/2009
Sample Type									Duplicate			Duplicate			
Semi-Volatile Organic Compounds															
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetophenone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Atrazine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzaldehyde	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Biphenyl (1,1-Biphenyl)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Caprolactam	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbazole	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Diethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dimethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isophorone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatile Organic Compounds															
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.0014	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00023 J	0.017 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.00036 J	0.00088 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.0003 J	0.00029 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.083 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	87-8	87-9	87-10	87-11	87-13	88-2	88-3	88-3	88-4	C-1	C-1	C-2	C-3	MW1-03
Sample Identification (GW-17360-)	100609-DR-287	100609-DR-284	100809-DR-308	100809-DR-309	100809-DR-310	100809-DR-304	100809-DR-305	100809-DR-306	100809-DR-307	100609-DR-276	100609-DR-277	100609-DR-278	100609-DR-279	100609-DR-289
Sample Date	10/6/2009	10/6/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009	10/6/2009
Sample Type	<i>Units</i>													
	<i>Duplicate</i>													
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.42 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.83 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.83 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.42 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Bromodichloromethane	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.00032 J	0.00031 J	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Bromomethane (Methyl Bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.00066 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.083 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.0005 J	0.001 U	0.00017 J	0.001 U	0.00063 J	0.00067 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.00026 J	0.0015	0.014	0.001 U	0.001 U	0.001 U	0.001 U	0.0011	0.0011	0.0016	0.0026	0.017 U
cis-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00055 J	0.00055 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.083 U
Methyl acetate	mg/L	0.01 UJ	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.17 UJ
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.017 U
Methyl Tert Butyl Ether	mg/L	0.00029 J	0.0005 U	0.0081	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.00032 J	0.00032 J	0.005 U	0.083 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.083 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
Tetrachloroethene	mg/L	0.00029 J	0.001 U	0.00038 J	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.0041	0.0043	0.0017	0.0046	0.48
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.00024 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 U
trans-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Trichloroethene	mg/L	0.001 U	0.0016	0.01	0.035 J	0.0011	0.001 U	0.001 U	0.001 U	0.0009 J	0.0011	0.0011	0.0013	0.007 J
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Trifluorotrchloroethane (Freon 113)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.017 UJ
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.0047	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00024 J	0.00062 J	0.017 U
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.033 U

Notes:
U-Not present at or above the associated value.
J-Estimated concentration.
UJ-Estimated reporting limit.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		MW2-03	MW3-03	MW4-03	MW5-03	MW6-03	MW7-03	MW8-04	MW9-04	MW10-04	MW10-04	MW11D-04	MW11S-05	MW13-04	MW14-04	
Sample Identification (GW-17360-)		100609-DR-288	100709-DR-302	100809-DR-315	100809-DR-314	100809-DR-311	100609-DR-285	100809-DR-313	100809-DR-312	100809-DR-318	100809-DR-319	100809-DR-316	100809-DR-317	100709-DR-295	100709-DR-296	
Sample Date		10/6/2009	10/7/2009	10/8/2009	10/8/2009	10/8/2009	10/6/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/7/2009	
Sample Type											Duplicate					
<i>Semi-Volatile Organic Compounds</i>																
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2,4,5-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2,4,6-Trichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2,4-Dichlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2,4-Dimethylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2,4-Dinitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2,4-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2,6-Dinitrotoluene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Chloronaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Chlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Methylnaphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3,3'-Dichlorobenzidine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
3-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4,6-Dinitro-2-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Bromophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Chloro-3-methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Chloroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Chlorophenyl phenyl ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Methylphenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Nitroaniline	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Nitrophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acenaphthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acenaphthylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acetophenone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Atrazine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzaldehyde	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(b)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(g,h,i)perylene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Biphenyl (1,1-Biphenyl)	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
bis(2-Chloroethoxy)methane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
bis(2-Chloroethyl)ether	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
bis(2-Ethylhexyl)phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Butyl benzylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Caprolactam	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Carbazole	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chrysene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibenz(a,h)anthracene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibenzofuran	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Diethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dimethyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Di-n-butylphthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Di-n-octyl phthalate	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluoranthene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluorene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Hexachlorobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Hexachlorobutadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Hexachlorocyclopentadiene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Hexachloroethane	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Isophorone	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Naphthalene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Nitrobenzene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
N-Nitrosodi-n-propylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
N-Nitrosodiphenylamine	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Pentachlorophenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Phenanthrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Phenol	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Pyrene	mg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<i>Volatile Organic Compounds</i>																
1,1,1-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004 J	0.001 U	0.001 U	0.0005 J	0.0005 J	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2,2-Tetrachloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00053 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location	MW2-03	MW3-03	MW4-03	MW5-03	MW6-03	MW7-03	MW8-04	MW9-04	MW10-04	MW10-04	MW11D-04	MW11S-05	MW13-04	MW14-04
Sample Identification (GW-17360-)	100609-DR-288	100709-DR-302	100809-DR-315	100809-DR-314	100809-DR-311	100609-DR-285	100809-DR-313	100809-DR-312	100809-DR-318	100809-DR-319	100809-DR-316	100809-DR-317	100709-DR-295	100709-DR-296
Sample Date	10/6/2009	10/7/2009	10/8/2009	10/8/2009	10/8/2009	10/6/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/8/2009	10/7/2009	10/7/2009
Sample Type	<i>Units</i>													
	<i>Duplicate</i>													
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.00049 J	0.00062 J	0.001 U	0.001 U	0.001 U	0.0017 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.0018	0.0022	0.00028 J	0.00082 J	0.001 U	0.0014	0.00021 J	0.00022 J	0.0014	0.0015	0.00016 J	0.001 U	0.00033 J
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ
Methyl Tert Butyl Ether	mg/L	0.005 U	0.005 U	0.0048 J	0.0035 J	0.005 U	0.0023 J	0.0019 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 UJ	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.0093	0.0012	0.00062 J	0.00049 J	0.001 U	0.001 U	0.00038 J	0.001 U	0.001 U	0.00048 J	0.001 U	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichloroethene	mg/L	0.001 U	0.001 U	0.00056 J	0.0012	0.001 U	0.00066 J	0.00039 J	0.00041 J	0.0015	0.0015	0.0021	0.00049 J	0.0028
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trifluorotrifluoroethane (Freon 113)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U

Notes:
U-Not present at or above the associated value.
J-Estimated concentration.
UJ-Estimated reporting limit.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2009 SEMI-ANNUAL GROUNDWATER MONITORING REPORT
GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		MW15-04	MW17-06	Trip Blank	Trip Blank
Sample Identification (GW-17360-)		100609-DR-282	100609-DR-280	TB-17360-100609	TB-17360-100709
Sample Date		10/6/2009	10/6/2009	10/6/2009	10/7/2009
Sample Type					
	Units				
Semi-Volatile Organic Compounds					
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/L	--	--	--	--
2,4,5-Trichlorophenol	mg/L	--	--	--	--
2,4,6-Trichlorophenol	mg/L	--	--	--	--
2,4-Dichlorophenol	mg/L	--	--	--	--
2,4-Dimethylphenol	mg/L	--	--	--	--
2,4-Dinitrophenol	mg/L	--	--	--	--
2,4-Dinitrotoluene	mg/L	--	--	--	--
2,6-Dinitrotoluene	mg/L	--	--	--	--
2-Chloronaphthalene	mg/L	--	--	--	--
2-Chlorophenol	mg/L	--	--	--	--
2-Methylnaphthalene	mg/L	--	--	--	--
2-Methylphenol	mg/L	--	--	--	--
2-Nitroaniline	mg/L	--	--	--	--
2-Nitrophenol	mg/L	--	--	--	--
3,3'-Dichlorobenzidine	mg/L	--	--	--	--
3-Nitroaniline	mg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	mg/L	--	--	--	--
4-Bromophenyl phenyl ether	mg/L	--	--	--	--
4-Chloro-3-methylphenol	mg/L	--	--	--	--
4-Chloroaniline	mg/L	--	--	--	--
4-Chlorophenyl phenyl ether	mg/L	--	--	--	--
4-Methylphenol	mg/L	--	--	--	--
4-Nitroaniline	mg/L	--	--	--	--
4-Nitrophenol	mg/L	--	--	--	--
Acenaphthene	mg/L	--	--	--	--
Acenaphthylene	mg/L	--	--	--	--
Acetophenone	mg/L	--	--	--	--
Anthracene	mg/L	--	--	--	--
Atrazine	mg/L	--	--	--	--
Benzaldehyde	mg/L	--	--	--	--
Benzo(a)anthracene	mg/L	--	--	--	--
Benzo(a)pyrene	mg/L	--	--	--	--
Benzo(b)fluoranthene	mg/L	--	--	--	--
Benzo(g,h,i)perylene	mg/L	--	--	--	--
Benzo(k)fluoranthene	mg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	mg/L	--	--	--	--
bis(2-Chloroethoxy)methane	mg/L	--	--	--	--
bis(2-Chloroethyl)ether	mg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/L	--	--	--	--
Butyl benzylphthalate	mg/L	--	--	--	--
Caprolactam	mg/L	--	--	--	--
Carbazole	mg/L	--	--	--	--
Chrysene	mg/L	--	--	--	--
Dibenz(a,h)anthracene	mg/L	--	--	--	--
Dibenzofuran	mg/L	--	--	--	--
Diethyl phthalate	mg/L	--	--	--	--
Dimethyl phthalate	mg/L	--	--	--	--
Di-n-butylphthalate	mg/L	--	--	--	--
Di-n-octyl phthalate	mg/L	--	--	--	--
Fluoranthene	mg/L	--	--	--	--
Fluorene	mg/L	--	--	--	--
Hexachlorobenzene	mg/L	--	--	--	--
Hexachlorobutadiene	mg/L	--	--	--	--
Hexachlorocyclopentadiene	mg/L	--	--	--	--
Hexachloroethane	mg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/L	--	--	--	--
Isophorone	mg/L	--	--	--	--
Naphthalene	mg/L	--	--	--	--
Nitrobenzene	mg/L	--	--	--	--
N-Nitrosodi-n-propylamine	mg/L	--	--	--	--
N-Nitrosodiphenylamine	mg/L	--	--	--	--
Pentachlorophenol	mg/L	--	--	--	--
Phenanthrene	mg/L	--	--	--	--
Phenol	mg/L	--	--	--	--
Pyrene	mg/L	--	--	--	--
Volatile Organic Compounds					
1,1,1-Trichloroethane	mg/L	0.0063	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
1,1,2-Trichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	0.00077 J	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	0.00028 J	0.001 U	0.001 U	0.001 U
1,2,4-Trichlorobenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 UJ
1,2-Dibromo-3-chloropropane (DBCP)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,3-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U

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GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		MW15-04	MW17-06	Trip Blank	Trip Blank
Sample Identification (GW-17360-)		100609-DR-282	100609-DR-280	TB-17360-100609	TB-17360-100709
Sample Date		10/6/2009	10/6/2009	10/6/2009	10/7/2009
Sample Type					
	<i>Units</i>				
2-Butanone (Methyl Ethyl Ketone)	mg/L	0.025 U	0.025 U	0.025 U	0.025 U
2-Hexanone	mg/L	0.05 U	0.05 U	0.05 U	0.05 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/L	0.05 U	0.05 UJ	0.05 U	0.05 U
Acetone	mg/L	0.025 U	0.025 U	0.0033 J	0.0031 J
Benzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Bromodichloromethane	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Bromoform	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane (Methyl Bromide)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Carbon disulfide	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Carbon tetrachloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform (Trichloromethane)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane (Methyl Chloride)	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	0.001 U	0.018	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Dichlorodifluoromethane (CFC-12)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Ethylbenzene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Isopropylbenzene	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Methyl acetate	mg/L	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U
Methyl cyclohexane	mg/L	0.001 U	0.001 U	0.001 U	0.001 UJ
Methyl Tert Butyl Ether	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Methylene chloride	mg/L	0.005 U	0.005 U	0.005 U	0.005 U
Styrene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Tetrachloroethene	mg/L	0.001 U	0.025	0.001 U	0.001 U
Toluene	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	0.001 U	0.00058 J	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Trichloroethene	mg/L	0.0017	0.0055	0.001 U	0.001 U
Trichlorofluoromethane (CFC-11)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U
Trifluorotrchloroethane (Freon 113)	mg/L	0.001 UJ	0.001 UJ	0.001 UJ	0.001 UJ
Vinyl chloride	mg/L	0.001 U	0.001 U	0.001 U	0.001 U
Xylene (total)	mg/L	0.002 U	0.002 U	0.002 U	0.002 U

Notes:
U-Not present at or above the associated value.
J-Estimated concentration.
UJ-Estimated reporting limit.

ATTACHMENT A
ANALYTICAL DATA

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ANALYTICAL REPORT

PROJECT NO. 17360-10

GM GRAND RAPIDS SSOW# E030020

SDG #: 9J07288

Paul Wiseman

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14496 Sheldon Rd Suite 200

Plymouth, MI 48170

TESTAMERICA LABORATORIES, INC.



Denise D. Heckler

Project Manager

October 30, 2009

CASE NARRATIVE

CASE NARRATIVE

9J07288

The following report contains the analytical results for forty-four water samples and two quality control samples submitted to TestAmerica North Canton by Conestoga-Rovers & Associates, Inc. from the GM GRAND RAPIDS SSOW# E030020 Site, project number 17360-10. The samples were received October 07, 2009 and October 09, 2009, according to documented sample acceptance procedures.

This SDG consists of (2) laboratory ID's: A9J070288 and A9J090242.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

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. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise D. Heckler, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.2 and 2.9°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for GW-17360-100609-DR-280 and GW-17360-100809-DR-309 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 9292286 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

GC/MS SEMIVOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES (continued)

The matrix spike/matrix spike duplicate(s) for batch(es) 9283014 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Sample(s) GW-17360-100709-DR-292 had elevated reporting limits due to matrix interferences.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada
(#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), NAVY,
ARMY, USDA Soil Permit

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J070288

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-100609-DR-276 10/06/09 10:30 001				
cis-1,2-Dichloroethene	1.1	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.1	1.0	ug/L	SW846 8260B
Trichloroethene	0.90 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-277 10/06/09 10:35 002				
cis-1,2-Dichloroethene	1.1	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.3	1.0	ug/L	SW846 8260B
Trichloroethene	1.0	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-278 10/06/09 10:40 003				
cis-1,2-Dichloroethene	1.6	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.32 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	1.7	1.0	ug/L	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SW846 8260B
Vinyl chloride	0.24 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-279 10/06/09 10:50 004				
cis-1,2-Dichloroethene	2.6	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.6	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.23 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.3	1.0	ug/L	SW846 8260B
Vinyl chloride	0.62 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-280 10/06/09 11:00 005				
cis-1,2-Dichloroethene	18	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.58 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	25	1.0	ug/L	SW846 8260B
Trichloroethene	5.5	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-281 10/06/09 12:50 006				
1,1-Dichloroethane	0.39 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	2.7	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.38 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.5	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J070288

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-100609-DR-282 10/06/09 13:00 007				
1,1-Dichloroethane	0.77 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.28 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	6.3	1.0	ug/L	SW846 8260B
Trichloroethene	1.7	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-283 10/06/09 13:30 008				
1,1-Dichloroethane	1.1	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.40 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	6.4	1.0	ug/L	SW846 8260B
Trichloroethene	1.2	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-284 10/06/09 14:00 009				
Chloroform	0.50 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.26 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-285 10/06/09 14:10 010				
Bromodichloromethane	0.17 J	1.0	ug/L	SW846 8260B
Chloroform	1.4	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.40 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.66 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-286 10/06/09 14:20 011				
1,1-Dichloroethane	0.22 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.68 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	2.9 J	5.0	ug/L	SW846 8260B
Trichloroethene	4.3	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-287 10/06/09 15:05 012				
Methyl tert-butyl ether	0.29 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.29 J	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-288 10/06/09 15:10 013				
Bromodichloromethane	0.49 J	1.0	ug/L	SW846 8260B
Chloroform	1.8	1.0	ug/L	SW846 8260B
Tetrachloroethene	9.3	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J070288

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-100609-DR-289 10/06/09 15:55 014				
Methylene chloride	15 J,B	83	ug/L	SW846 8260B
Tetrachloroethene	480	17	ug/L	SW846 8260B
Trichloroethene	7.0 J	17	ug/L	SW846 8260B
TB-17360-100609 10/06/09 015				
Acetone	3.3 J	25	ug/L	SW846 8260B
GW-17360-100609-DR-290 10/06/09 16:00 016				
bis(2-Ethylhexyl) phthalate	1.3 J	5.0	ug/L	SW846 8270C
Chloroform	0.17 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.2 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	1.3	1.0	ug/L	SW846 8260B
GW-17360-100609-DR-291 10/06/09 16:05 017				
bis(2-Ethylhexyl) phthalate	1.6 J	5.0	ug/L	SW846 8270C
Chloroform	0.18 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.3 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	1.3	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
TB-17360-100709 10/07/09 001				
Acetone	3.1 J	25	ug/L	SW846 8260B
GW-17360-100709-DR-292 10/07/09 08:35 002				
Anthracene	0.89 J	20	ug/L	SW846 8270C
Benzo(a)anthracene	3.7 J	4.0	ug/L	SW846 8270C
Benzo(a)pyrene	3.8 J	8.0	ug/L	SW846 8270C
Benzo(b)fluoranthene	3.8 J	8.0	ug/L	SW846 8270C
Benzo(ghi)perylene	3.2 J	20	ug/L	SW846 8270C
Benzo(k)fluoranthene	2.8 J	20	ug/L	SW846 8270C
Carbazole	1.8 J	40	ug/L	SW846 8270C
Chrysene	4.1 J	20	ug/L	SW846 8270C
Fluoranthene	10 J	20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	2.5 J	8.0	ug/L	SW846 8270C
Phenanthrene	6.3 J	20	ug/L	SW846 8270C
Pyrene	7.2 J	20	ug/L	SW846 8270C
Acetone	4.8 J	25	ug/L	SW846 8260B
2-Butanone	0.80 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.5	1.0	ug/L	SW846 8260B
Ethylbenzene	0.20 J	1.0	ug/L	SW846 8260B
Isopropylbenzene	0.42 J	5.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.6 J	5.0	ug/L	SW846 8260B
Xylenes (total)	1.4 J	2.0	ug/L	SW846 8260B
GW-17360-100709-DR-293 10/07/09 09:10 003				
Acenaphthene	0.61 J	5.0	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	1.9 J,B	5.0	ug/L	SW846 8270C
Dibenzofuran	0.43 J	5.0	ug/L	SW846 8270C
Fluorene	0.49 J	5.0	ug/L	SW846 8270C
Naphthalene	0.39 J	5.0	ug/L	SW846 8270C
cis-1,2-Dichloroethene	0.39 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	3.1 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.64 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.28 J	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-294 10/07/09 10:35 004				
Chloroform	0.42 J	1.0	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
GW-17360-100709-DR-295 10/07/09 11:30 005				
Chloroform	0.44 J	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-296 10/07/09 08:20 006				
Chloroform	0.33 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.8	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-297 10/07/09 09:05 007				
1,1-Dichloroethane	3.7	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.9	1.0	ug/L	SW846 8260B
Trichloroethene	0.43 J	1.0	ug/L	SW846 8260B
Vinyl chloride	35	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-298 10/07/09 09:30 008				
Chloroform	0.53 J	1.0	ug/L	SW846 8260B
Trichloroethene	6.1	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-299 10/07/09 10:25 009				
Chloroform	0.25 J	1.0	ug/L	SW846 8260B
Trichloroethene	5.7	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-300 10/07/09 11:30 010				
cis-1,2-Dichloroethene	16	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.3	1.0	ug/L	SW846 8260B
Trichloroethene	11	1.0	ug/L	SW846 8260B
Vinyl chloride	15	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-301 10/07/09 12:10 011				
1,1-Dichloroethane	1.2	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.92 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	19	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	3.4	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.19 J	5.0	ug/L	SW846 8260B
Trichloroethene	21	1.0	ug/L	SW846 8260B
Vinyl chloride	10	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-100709-DR-302 10/07/09 12:30 012				
Bromodichloromethane	0.62 J	1.0	ug/L	SW846 8260B
Chloroform	2.2	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.2	1.0	ug/L	SW846 8260B
GW-17360-100709-DR-303 10/07/09 13:05 013				
cis-1,2-Dichloroethene	2.6	1.0	ug/L	SW846 8260B
Vinyl chloride	1.5	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-305 10/08/09 09:15 015				
Bromodichloromethane	0.32 J	1.0	ug/L	SW846 8260B
Chloroform	0.63 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.55 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-306 10/08/09 09:20 016				
Bromodichloromethane	0.31 J	1.0	ug/L	SW846 8260B
Chloroform	0.67 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.55 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-308 10/08/09 10:00 018				
1,1-Dichloroethane	0.36 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.30 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.5	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	8.1	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.38 J	1.0	ug/L	SW846 8260B
Trichloroethene	10	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-309 10/08/09 10:25 019				
Chloroform	0.17 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.88 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.29 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	14	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.24 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	1.4	1.0	ug/L	SW846 8260B
Trichloroethene	35	1.0	ug/L	SW846 8260B
Vinyl chloride	4.7	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-100809-DR-310 10/08/09 10:30 020				
Carbon disulfide	0.66 J	5.0	ug/L	SW846 8260B
Trichloroethene	1.1	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-312 10/08/09 11:15 022				
Chloroform	0.22 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	1.9 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.38 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.41 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-313 10/08/09 11:30 023				
Chloroform	0.21 J	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	0.53 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	2.3 J	5.0	ug/L	SW846 8260B
Trichloroethene	0.39 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-314 10/08/09 11:45 024				
Chloroform	0.82 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	3.5 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.49 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.2	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-315 10/08/09 13:30 025				
Chloroform	0.28 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	4.8 J	5.0	ug/L	SW846 8260B
Tetrachloroethene	0.62 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.56 J	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-316 10/08/09 13:40 026				
Chloroform	0.16 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.48 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.1	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-317 10/08/09 13:55 027				
Trichloroethene	0.49 J	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

9J07288 : A9J090242

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-100809-DR-318 10/08/09 14:00 028				
Chloroform	1.4	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.50 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.5	1.0	ug/L	SW846 8260B
GW-17360-100809-DR-319 10/08/09 14:05 029				
Chloroform	1.5	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.50 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.5	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

9J07288

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

9J07288 : A9J070288

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LL50T	001	GW-17360-100609-DR-276	10/06/09	10:30
LL50X	002	GW-17360-100609-DR-277	10/06/09	10:35
LL500	003	GW-17360-100609-DR-278	10/06/09	10:40
LL501	004	GW-17360-100609-DR-279	10/06/09	10:50
LL502	005	GW-17360-100609-DR-280	10/06/09	11:00
LL503	006	GW-17360-100609-DR-281	10/06/09	12:50
LL505	007	GW-17360-100609-DR-282	10/06/09	13:00
LL507	008	GW-17360-100609-DR-283	10/06/09	13:30
LL51M	009	GW-17360-100609-DR-284	10/06/09	14:00
LL51N	010	GW-17360-100609-DR-285	10/06/09	14:10
LL51P	011	GW-17360-100609-DR-286	10/06/09	14:20
LL51R	012	GW-17360-100609-DR-287	10/06/09	15:05
LL51W	013	GW-17360-100609-DR-288	10/06/09	15:10
LL51X	014	GW-17360-100609-DR-289	10/06/09	15:55
LL511	015	TB-17360-100609	10/06/09	
LL512	016	GW-17360-100609-DR-290	10/06/09	16:00
LL513	017	GW-17360-100609-DR-291	10/06/09	16:05

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

9J07288 : A9J090242

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LMAM0	001	TB-17360-100709	10/07/09	
LMAM3	002	GW-17360-100709-DR-292	10/07/09	08:35
LMAM4	003	GW-17360-100709-DR-293	10/07/09	09:10
LMAM5	004	GW-17360-100709-DR-294	10/07/09	10:35
LMAM6	005	GW-17360-100709-DR-295	10/07/09	11:30
LMAM7	006	GW-17360-100709-DR-296	10/07/09	08:20
LMAM9	007	GW-17360-100709-DR-297	10/07/09	09:05
LMANC	008	GW-17360-100709-DR-298	10/07/09	09:30
LMANF	009	GW-17360-100709-DR-299	10/07/09	10:25
LMANG	010	GW-17360-100709-DR-300	10/07/09	11:30
LMANJ	011	GW-17360-100709-DR-301	10/07/09	12:10
LMANL	012	GW-17360-100709-DR-302	10/07/09	12:30
LMANN	013	GW-17360-100709-DR-303	10/07/09	13:05
LMANQ	014	GW-17360-100809-DR-304	10/08/09	09:10
LMANV	015	GW-17360-100809-DR-305	10/08/09	09:15
LMANX	016	GW-17360-100809-DR-306	10/08/09	09:20
LMAN1	017	GW-17360-100809-DR-307	10/08/09	09:45
LMAN2	018	GW-17360-100809-DR-308	10/08/09	10:00
LMAN3	019	GW-17360-100809-DR-309	10/08/09	10:25
LMA PW	020	GW-17360-100809-DR-310	10/08/09	10:30
LMA P1	021	GW-17360-100809-DR-311	10/08/09	11:00
LMA P4	022	GW-17360-100809-DR-312	10/08/09	11:15
LMA P7	023	GW-17360-100809-DR-313	10/08/09	11:30
LMA QA	024	GW-17360-100809-DR-314	10/08/09	11:45
LMA QC	025	GW-17360-100809-DR-315	10/08/09	13:30
LMA QE	026	GW-17360-100809-DR-316	10/08/09	13:40
LMA QJ	027	GW-17360-100809-DR-317	10/08/09	13:55
LMA QL	028	GW-17360-100809-DR-318	10/08/09	14:00
LMA QN	029	GW-17360-100809-DR-319	10/08/09	14:05

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
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***SHIPPING
AND
RECEIVING DOCUMENTS***



CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:

Company: CRA, Inc.	Report To: P. Wiskman
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: GN-Grand Rapids
Fax: 734-453-5201	Project Number: 17360-10
Email:	

PAGE 1 OF 2

Laboratory: TESTAMENTICA
Laboratory Location: N. Canton OH
Laboratory Contact: D. Heckler
Requested Due Date: TAT: STD
QA/QC Requirements:

ID # **No D 6115**

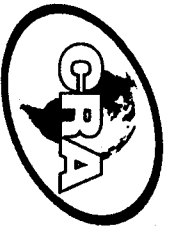
SSOW Ref. Code: **E030020-R1-**

Sample Identification:

1.	Sample Identification	Valid Matrix Codes: WG Groundwater WB Borehole Water WS Surface Water SO Soil SE Sediment See Back for Additional Codes	Matrix Code	Date Collected	Time Collected	# Containers	Preservative						Analysis and Method	Remarks/Lab ID		
							Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:				
1.	GW-17360-100609-DR-276	-217	WG	10/6/09	1030	3										
2.		-278			1040	3										
3.		-279			1050	3										
4.		-280			1100	9										
5.		-281			1250	3										
6.		-282			1300	3										
7.		-283			1330	3										
8.		-284			1400	3										
9.		-285			1410	3										
10.		-286			1420	3										
11.		-287			1505	3										
12.		-288			1510	3										
13.		-289			1555	3										
14.																
15.	WB-17360-100609		WB			1										

TOTAL NUMBER OF CONTAINERS 49

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME								
FCD EX	1	D. Rivers / CRT	10/6/09	1800	Chris Boyd	10/20/09	9:15								
AIRBILL NO.															
<table border="1"> <tr> <td>Temp in C</td> <td>Y/N</td> </tr> <tr> <td>Received on Ice</td> <td>Y/N</td> </tr> <tr> <td>Sealed Cooler</td> <td>Y/N</td> </tr> <tr> <td>Samples Intact</td> <td>Y/N</td> </tr> </table>								Temp in C	Y/N	Received on Ice	Y/N	Sealed Cooler	Y/N	Samples Intact	Y/N
Temp in C	Y/N														
Received on Ice	Y/N														
Sealed Cooler	Y/N														
Samples Intact	Y/N														
<table border="1"> <tr> <td>Sample Condition</td> <td>Additional Comments:</td> </tr> <tr> <td></td> <td></td> </tr> </table>								Sample Condition	Additional Comments:						
Sample Condition	Additional Comments:														
<table border="1"> <tr> <td>Sampler Name:</td> <td>D. Rivers / York</td> </tr> <tr> <td>Sampler Signature:</td> <td>[Signature]</td> </tr> <tr> <td>Date:</td> <td>10/6/09</td> </tr> </table>								Sampler Name:	D. Rivers / York	Sampler Signature:	[Signature]	Date:	10/6/09		
Sampler Name:	D. Rivers / York														
Sampler Signature:	[Signature]														
Date:	10/6/09														



CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Required Client Information:

Company: CRA, Inc.	Report To: <u>P. Wiseman</u>
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: <u>GM-Grand Rapids</u>
Fax: 734-453-5201	Project Number: <u>17360-10</u>
Email:	

PAGE 2 OF 2

Laboratory: <u>TEST America</u>
Laboratory Location: <u>N. Canton & W</u>
Laboratory Contact: <u>D. Hejzlar</u>
Requested Due Date: <u>TAT: STD</u>
QA/QC Requirements:

ID# **No D 6085**

SSOW Ref. Code: **E030020-R1**

Valid Matrix Codes:
 W/G Groundwater
 WB Borehole Water
 WS Surface Water
 SO Soil
 SE Sediment
 See Back for Additional Codes

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	TCL VOCs	TCL SVOCs	Analysis and Method	Remarks/Lab ID
1. <u>GW-17360-106609-DR-290</u>	<u>WG</u>	<u>10/6/09</u>	<u>1600</u>	<u>5</u>	<u>2</u>	<u>3</u>					<u>X</u>	<u>X</u>		
2. <u>11 11 -291</u>											<u>X</u>	<u>X</u>		
3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														
11.														
12.														
13.														
14.														
15.														

TOTAL NUMBER OF CONTAINERS **10**

SHIPMENT METHOD: <u>FEDX</u>	NO. OF COOLERS: <u>1</u>	RELINQUISHED BY / AFFILIATION: <u>D. Rivers</u>	DATE: <u>10/6/09</u>	TIME: <u>1800</u>	RECEIVED BY / AFFILIATION: <u>Chadley</u>	DATE: <u>10/7/09</u>	TIME: <u>9:15</u>
AIRBILL NO.							
Temp in C							
Received on Ice	Y/N						
Sealed Cooler	Y/N						
Samples Intact	Y/N						

Sampler Name: D. Rivers
 Sampler Signature: [Signature]
 Date: 10/6/09

Additional Comments:

TestAmerica Cooler Receipt Form/Narrative

Lot Number: HAJ070288

North Canton Facility

Client CRA Project GM GRAND RAPIDS By: Chris Lopez

Cooler Received on 10/7/09 Opened on 10/7/09 (Signature)

FedEx UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # 241-926 Multiple Coolers Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler(s)? Yes No Intact? Yes No NA
 If YES, Quantity _____ Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes No NA
 Were custody seals on the bottle(s)? Yes No
 If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes No
 3. Did custody papers accompany the sample(s)? Yes No Relinquished by client? Yes No
 4. Were the custody papers signed in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other _____
 6. Cooler temperature upon receipt 2.6 °C See back of form for multiple coolers/temps
 METHOD: IR Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were sample(s) at the correct pH upon receipt? Yes No NA
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
 13. Was a trip blank present in the cooler(s)? Yes No Were VOAs on the COC? Yes No
- Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
- Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO₃; Sulfuric Acid Lot# 100108-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials



CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

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Required Client Information:

Company: CRA, Inc.	Report To: P. W. Schmitt
Address: 14496 Sheldon Rd.	Copy To:
Suite 200	Invoice To:
Plymouth, MI 48170	P.O.:
Phone: 734-453-5123	Project Name: GM-Grand Rapids
Fax: 734-453-5201	Project Number: 17360-70
Email:	

PAGE 1 OF 2

Laboratory: TEST AMERICA
Laboratory Location: N. Canton, OH
Laboratory Contact: D. Heckler
Requested Due Date: TAT: STD
QA/QC Requirements:

ID # No D 6148

SSOW Ref Code: E030020-R1

- Valid Matrix Codes:
- WG Groundwater
 - WB Borehole Water
 - WS Surface Water
 - SO Soil
 - SE Sediment
 - See Back for Additional Codes

Matrix Code

Date Collected

Time Collected

Containers

Unpreserved

HCl

H2SO4

HNO3

NaOH

Other:

Preservative

Remarks/Lab ID

Sample Identification:	Matrix Code	Date Collected	Time Collected	# Containers	Unpreserved	HCl	H2SO4	HNO3	NaOH	Other:	Analysis and Method	Remarks/Lab ID
1. B B-17360-100709	WG	10/7/09	835	1	1						TCLVOCs	
2. GW-17360-100709-DR-292	WG	10/7/09	910	5	2						TCL SVOCs	
3.			1035	5	2							
4.			1130	3	3							
5.			820	3	3							
6.			905	3	3							
7.			930	3	3							
8.			1025	3	3							
9.			1130	3	3							
10.			1240	3	3							
11.			1230	3	3							
12.			1305	3	3							
13.			910	3	3							
14.			915	3	3							
15.												

TOTAL NUMBER OF CONTAINERS 49

SHIPMENT METHOD	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED BY / AFFILIATION	DATE	TIME
FedEx	1	D. Russ / CRA	10/8/09	1500	D. Rivers / J. York	10/9/09	9:20
AIRBILL NO							

Sample Condition

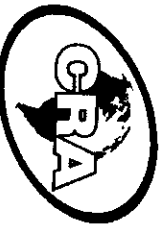
Temp in C	Y/N
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

Additional Comments:

Sampler Name: D. Rivers, J. York

Sampler Signature: D. Rivers

Date: 10/8/09



CONESTOGA-ROVERS & ASSOCIATES

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

PAGE 2 OF 2

ID # **№ D 6149**

SSOW Ref. Code: **E030020-R1**

Required Client Information:

Company: CRA, Inc. Report To: **P. Wiseman**
 Address: 1496 Sheldon Rd. Copy To:
 Suite 200 Invoice To:
 Plymouth, MI 48170 P.O.:
 Phone: 734-453-5123 Project Name: **GM-Grand Rapids**
 Fax: 734-453-5201 Project Number: **17360-10**
 Email:

Laboratory: **TEST AMERICA**
 Laboratory Location: **N. Canton, MI**
 Laboratory Contact: **D. Heister**
 Requested Due Date: TAT: **STD**
 QA/QC Requirements:

Valid Matrix Codes:	Matrix Code
WG Groundwater	
WB Borehole Water	
WS Surface Water	
SO Soil	
SE Sediment	
See Back for Additional Codes	

Preservative
Unpreserved
HCl
H2SO4
HNO3
NaOH
Other:

TCL	VOCs	MS/MSD
-----	------	--------

Analysis and Method

Remarks/Lab ID

Sample Identification: **SW-17360-100809-DL-306**

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
-307	-308	-309	-310	-311	-312	-313	-314	-315	-316	-317	-318	-319		
WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG	WG
10/8/09	920	945	1000	1025	1030	1100	1115	1130	1145	1330	1340	1355	1400	1405
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

SHIPMENT METHOD: **FED EX** NO. OF COOLERS: **1** RELINQUISHED BY / AFFILIATION: **D RIVERS / CNT**

AIRBILL NO. **D RIVERS / CNT**

Temp in C: **Y/N**

Received on Ice: **Y/N**

Scaled Cooler: **Y/N**

Samples Intact: **Y/N**

Additional Comments:

DATE: **10/8/09** TIME: **1500**

RECEIVED BY / AFFILIATION: **[Signature]**

DATE: **10/15/09** TIME: **9:46**

Sample Name: **D RIVERS, J-York**

Sampler Signature: **[Signature]**

Date: **10/8/09**

Distribution: **WHITE - Fully Executed Copy** **YELLOW - Receiving Laboratory Copy** **PINK - Shipper** **GOLDENROD - Sampler Copy**

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A9J090242

Client CRA Project GM Grand Rapids By: Chris [Signature]
 Cooler Received on 10/9/09 Opened on 10/9/09
 FedEx UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other
 TestAmerica Cooler # _____ Multiple Coolers Foam Box Client Cooler Other

1. Were custody seals on the outside of the cooler(s)? Yes No Intact? Yes No NA
 If YES, Quantity _____ Quantity Unsalvageable _____
 Were custody seals on the outside of cooler(s) signed and dated? Yes No NA
 Were custody seals on the bottle(s)? Yes No
 If YES, are there any exceptions? _____
 2. Shippers' packing slip attached to the cooler(s)? Yes No
 3. Did custody papers accompany the sample(s)? Yes No
 4. Were the custody papers signed in the appropriate place? Relinquished by client? Yes No
 5. Packing material used: Bubble Wrap Foam None Other _____
 Yes No
 6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps
 METHOD: IR Other
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels be reconciled with the COC? Yes No
 9. Were sample(s) at the correct pH upon receipt? Yes No NA
 10. Were correct bottle(s) used for the test(s) indicated? Yes No NA
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
 13. Was a trip blank present in the cooler(s)? Yes No Were VOAs on the COC? Yes No
- Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
 Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031909-HNO₃; Sulfuric Acid Lot# 082509-H₂SO₄; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH₃COO)₂ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

**TestAmerica Cooler Receipt Form/Narrative
North Canton Facility**

Client ID	pH	Date	Initials
Cooler #	Temp. °C	Method	Coolant
241-820	2.2	IR	ICE
241-1004	2.9	I	I

Discrepancies Cont'd:

GCMS VOLATILE DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-276

GC/MS Volatiles

Lot-Sample #...: A9J070288-001 Work Order #...: LL50T1AA Matrix.....: WG
 Date Sampled...: 10/06/09 10:30 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	1.1	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-276

GC/MS Volatiles

Lot-Sample #...: A9J070288-001 Work Order #...: LL50T1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	4.1	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	0.90 J	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	83	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-277

GC/MS Volatiles

Lot-Sample #...: A9J070288-002 Work Order #...: LL50X1AA Matrix.....: WG
 Date Sampled...: 10/06/09 10:35 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	1.1	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-277

GC/MS Volatiles

Lot-Sample #...: A9J070288-002 Work Order #...: LL50X1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	4.3	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.0	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-278

GC/MS Volatiles

Lot-Sample #...: A9J070288-003 Work Order #...: LL5001AA Matrix.....: WG
 Date Sampled...: 10/06/09 10:40 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	1.6	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	0.32 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-278

GC/MS Volatiles

Lot-Sample #...: A9J070288-003 Work Order #...: LL5001AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	1.7	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.1	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	0.24 J	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-279

GC/MS Volatiles

Lot-Sample #...: A9J070288-004 Work Order #...: LL5011AA Matrix.....: WG
 Date Sampled...: 10/06/09 10:50 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	2.6	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-279

GC/MS Volatiles

Lot-Sample #...: A9J070288-004 Work Order #...: LL5011AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	4.6	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	0.23 J	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.3	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	0.62 J	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-280

GC/MS Volatiles

Lot-Sample #...: A9J070288-005 Work Order #...: LL5021AA Matrix.....: WG
 Date Sampled...: 10/06/09 11:00 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	18	1.0	ug/L	0.17
trans-1,2-Dichloroethene	0.58 J	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-280

GC/MS Volatiles

Lot-Sample #...: A9J070288-005 Work Order #...: LL5021AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	25	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	5.5	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-281

GC/MS Volatiles

Lot-Sample #...: A9J070288-006 Work Order #...: LL5031AA Matrix.....: WG
 Date Sampled...: 10/06/09 12:50 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	0.39 J	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	2.7	1.0	ug/L	0.17
trans-1,2-Dichloroethene	0.38 J	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-281

GC/MS Volatiles

Lot-Sample #...: A9J070288-006 Work Order #...: LL5031AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	2.5	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-282

GC/MS Volatiles

Lot-Sample #...: A9J070288-007 Work Order #...: LL5051AA Matrix.....: WG
 Date Sampled...: 10/06/09 13:00 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	0.77 J	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	0.28 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-282

GC/MS Volatiles

Lot-Sample #...: A9J070288-007 Work Order #...: LL5051AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	6.3	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.7	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	83	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-283

GC/MS Volatiles

Lot-Sample #...: A9J070288-008 Work Order #...: LL5071AA Matrix.....: WG
 Date Sampled...: 10/06/09 13:30 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	1.1	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	0.40 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-283

GC/MS Volatiles

Lot-Sample #...: A9J070288-008 Work Order #...: LL5071AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	6.4	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.2	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-284

GC/MS Volatiles

Lot-Sample #...: A9J070288-009 Work Order #...: LL51M1AA Matrix.....: WG
 Date Sampled...: 10/06/09 14:00 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.50 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	0.26 J	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-284

GC/MS Volatiles

Lot-Sample #...: A9J070288-009 Work Order #...: LL51M1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.6	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	88	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-285

GC/MS Volatiles

Lot-Sample #...: A9J070288-010 Work Order #...: LL51N1AA Matrix.....: WG
 Date Sampled...: 10/06/09 14:10 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	0.17 J	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	1.4	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-285

GC/MS Volatiles

Lot-Sample #...: A9J070288-010 Work Order #...: LL51N1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	0.40 J	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	0.66 J	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-286

GC/MS Volatiles

Lot-Sample #...: A9J070288-011 Work Order #...: LL51P1AA Matrix.....: WG
 Date Sampled...: 10/06/09 14:20 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	0.22 J	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	0.68 J	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	2.9 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-286

GC/MS Volatiles

Lot-Sample #...: A9J070288-011 Work Order #...: LL51P1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	4.3	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-287

GC/MS Volatiles

Lot-Sample #...: A9J070288-012 Work Order #...: LL51R1AA Matrix.....: WG
 Date Sampled...: 10/06/09 15:05 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	0.29 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-287

GC/MS Volatiles

Lot-Sample #...: A9J070288-012 Work Order #...: LL51R1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	0.29 J	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	87	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-288

GC/MS Volatiles

Lot-Sample #...: A9J070288-013 Work Order #...: LL51W1AA Matrix.....: WG
 Date Sampled...: 10/06/09 15:10 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	0.49 J	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	1.8	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-288

GC/MS Volatiles

Lot-Sample #...: A9J070288-013 Work Order #...: LL51W1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	9.3	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-289

GC/MS Volatiles

Lot-Sample #...: A9J070288-014 Work Order #...: LL51X1AA Matrix.....: WG
 Date Sampled...: 10/06/09 15:55 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 16.67 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	420	ug/L	18
Benzene	ND	17	ug/L	2.2
Bromodichloromethane	ND	17	ug/L	2.5
Bromoform	ND	17	ug/L	11
Bromomethane	ND	17	ug/L	6.8
2-Butanone	ND	420	ug/L	9.5
Carbon disulfide	ND	83	ug/L	2.2
Carbon tetrachloride	ND	17	ug/L	2.2
Chlorobenzene	ND	17	ug/L	2.5
Chloroethane	ND	17	ug/L	4.8
Chloroform	ND	17	ug/L	2.7
Chloromethane	ND	17	ug/L	5.0
Cyclohexane	ND	17	ug/L	2.0
Dibromochloromethane	ND	17	ug/L	3.0
1,2-Dibromo-3-chloro- propane	ND	17	ug/L	11
1,2-Dibromoethane	ND	17	ug/L	4.0
1,2-Dichlorobenzene	ND	17	ug/L	2.2
1,3-Dichlorobenzene	ND	17	ug/L	2.3
1,4-Dichlorobenzene	ND	17	ug/L	2.2
Dichlorodifluoromethane	ND	17	ug/L	5.2
1,1-Dichloroethane	ND	17	ug/L	2.5
1,2-Dichloroethane	ND	17	ug/L	3.7
1,1-Dichloroethene	ND	17	ug/L	3.2
cis-1,2-Dichloroethene	ND	17	ug/L	2.8
trans-1,2-Dichloroethene	ND	17	ug/L	3.2
1,2-Dichloropropane	ND	17	ug/L	3.0
cis-1,3-Dichloropropene	ND	17	ug/L	2.3
trans-1,3-Dichloropropene	ND	17	ug/L	3.2
Ethylbenzene	ND	17	ug/L	2.8
2-Hexanone	ND	830	ug/L	6.8
Isopropylbenzene	ND	83	ug/L	2.2
Methyl acetate	ND	170	ug/L	6.3
Methylene chloride	15 J,B	83	ug/L	5.5
Methylcyclohexane	ND	17	ug/L	2.2
4-Methyl-2-pentanone	ND	830	ug/L	5.3
Methyl tert-butyl ether	ND	83	ug/L	2.8
Styrene	ND	17	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-289

GC/MS Volatiles

Lot-Sample #...: A9J070288-014 Work Order #...: LL51X1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	17	ug/L	3.0
Tetrachloroethene	480	17	ug/L	4.8
Toluene	ND	17	ug/L	2.2
1,2,4-Trichloro- benzene	ND	83	ug/L	2.5
1,1,1-Trichloroethane	ND	17	ug/L	3.7
1,1,2-Trichloroethane	ND	17	ug/L	4.5
Trichloroethene	7.0 J	17	ug/L	2.8
Trichlorofluoromethane	ND	17	ug/L	3.5
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	17	ug/L	4.7
Vinyl chloride	ND	17	ug/L	3.7
Xylenes (total)	ND	33	ug/L	4.7

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-100609

GC/MS Volatiles

Lot-Sample #...: A9J070288-015 Work Order #...: LL5111AA Matrix.....: WQ
 Date Sampled...: 10/06/09 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	3.3 J	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-100609

GC/MS Volatiles

Lot-Sample #...: A9J070288-015 Work Order #...: LL5111AA Matrix.....: WQ

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	85	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-290

GC/MS Volatiles

Lot-Sample #...: A9J070288-016 Work Order #...: LL5121AA Matrix.....: WG
 Date Sampled...: 10/06/09 16:00 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.17 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	1.2 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-290

GC/MS Volatiles

Lot-Sample #...: A9J070288-016 Work Order #...: LL5121AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	1.3	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-291

GC/MS Volatiles

Lot-Sample #...: A9J070288-017 Work Order #...: LL5131AA Matrix.....: WG
 Date Sampled...: 10/06/09 16:05 Date Received..: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.18 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	1.3 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-291

GC/MS Volatiles

Lot-Sample #...: A9J070288-017 Work Order #...: LL5131AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	1.3	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	86	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-100709

GC/MS Volatiles

Lot-Sample #...: A9J090242-001 Work Order #...: LMAM01AA Matrix.....: WQ
 Date Sampled...: 10/07/09 Date Received...: 10/09/09
 Prep Date.....: 10/15/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	3.1 J	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: TB-17360-100709

GC/MS Volatiles

Lot-Sample #...: A9J090242-001 Work Order #...: LMAM01AA Matrix.....: WQ

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	80	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-292

GC/MS Volatiles

Lot-Sample #...: A9J090242-002 Work Order #...: LMAM31AA Matrix.....: WG
 Date Sampled...: 10/07/09 08:35 Date Received..: 10/09/09
 Prep Date.....: 10/15/09 Analysis Date..: 10/15/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	4.8 J	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	0.80 J	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	1.5	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	0.20 J	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	0.42 J	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	1.6 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-292

GC/MS Volatiles

Lot-Sample #...: A9J090242-002 Work Order #...: LMAM31AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	1.4 J	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	79	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-293

GC/MS Volatiles

Lot-Sample #...: A9J090242-003 Work Order #...: LMAM41AA Matrix.....: WG
 Date Sampled...: 10/07/09 09:10 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	0.39 J	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	3.1 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-293

GC/MS Volatiles

Lot-Sample #...: A9J090242-003 Work Order #...: LMAM41AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	0.64 J	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	0.28 J	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-294

GC/MS Volatiles

Lot-Sample #...: A9J090242-004 Work Order #...: LMAM51AA Matrix.....: WG
 Date Sampled...: 10/07/09 10:35 Date Received...: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date...: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.42 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-294

GC/MS Volatiles

Lot-Sample #...: A9J090242-004 Work Order #...: LMAM51AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	80	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-295

GC/MS Volatiles

Lot-Sample #...: A9J090242-005 Work Order #...: LMAM61AA Matrix.....: WG
 Date Sampled...: 10/07/09 11:30 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.44 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-295

GC/MS Volatiles

Lot-Sample #...: A9J090242-005 Work Order #...: LMAM61AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-296

GC/MS Volatiles

Lot-Sample #...: A9J090242-006 Work Order #...: LMAM71AA Matrix.....: WG
 Date Sampled...: 10/07/09 08:20 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.33 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-296

GC/MS Volatiles

Lot-Sample #...: A9J090242-006 Work Order #...: LMAM71AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	2.8	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-297

GC/MS Volatiles

Lot-Sample #...: A9J090242-007 Work Order #...: LMAM91AA Matrix.....: WG
 Date Sampled...: 10/07/09 09:05 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	3.7	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	3.9	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-297

GC/MS Volatiles

Lot-Sample #...: A9J090242-007 Work Order #...: LMAM91AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	0.43 J	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	35	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-298

GC/MS Volatiles

Lot-Sample #...: A9J090242-008 Work Order #...: LMANC1AA Matrix.....: WG
 Date Sampled...: 10/07/09 09:30 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.53 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-298

GC/MS Volatiles

Lot-Sample #...: A9J090242-008 Work Order #...: LMANC1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	6.1	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	83	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-299

GC/MS Volatiles

Lot-Sample #...: A9J090242-009 Work Order #...: LMANF1AA Matrix.....: WG
 Date Sampled...: 10/07/09 10:25 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.25 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-299

GC/MS Volatiles

Lot-Sample #...: A9J090242-009 Work Order #...: LMANF1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	5.7	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-300

GC/MS Volatiles

Lot-Sample #...: A9J090242-010 Work Order #...: LMANG1AA Matrix.....: WG
 Date Sampled...: 10/07/09 11:30 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	16	1.0	ug/L	0.17
trans-1,2-Dichloroethene	3.3	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-300

GC/MS Volatiles

Lot-Sample #...: A9J090242-010 Work Order #...: LMANG1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	11	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	15	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-301

GC/MS Volatiles

Lot-Sample #...: A9J090242-011 Work Order #...: LMANJ1AA Matrix.....: WG
 Date Sampled...: 10/07/09 12:10 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	1.2	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	0.92 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	19	1.0	ug/L	0.17
trans-1,2-Dichloroethene	3.4	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	0.19 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-301

GC/MS Volatiles

Lot-Sample #...: A9J090242-011 Work Order #...: LMANJ1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	21	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	10	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	91	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-302

GC/MS Volatiles

Lot-Sample #...: A9J090242-012 Work Order #...: LMANL1AA Matrix.....: WG
 Date Sampled...: 10/07/09 12:30 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	0.62 J	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	2.2	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-302

GC/MS Volatiles

Lot-Sample #...: A9J090242-012 Work Order #...: LMANL1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	1.2	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-303

GC/MS Volatiles

Lot-Sample #...: A9J090242-013 Work Order #...: LMANN1AA Matrix.....: WG
 Date Sampled...: 10/07/09 13:05 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	2.6	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-303

GC/MS Volatiles

Lot-Sample #...: A9J090242-013 Work Order #...: LMANN1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	1.5	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-304

GC/MS Volatiles

Lot-Sample #...: A9J090242-014 Work Order #...: LMANQ1AA Matrix.....: WG
 Date Sampled...: 10/08/09 09:10 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-304

GC/MS Volatiles

Lot-Sample #...: A9J090242-014 Work Order #...: LMANQ1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-305

GC/MS Volatiles

Lot-Sample #...: A9J090242-015 Work Order #...: LMANV1AA Matrix.....: WG
 Date Sampled...: 10/08/09 09:15 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	0.32 J	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.63 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	0.55 J	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-305

GC/MS Volatiles

Lot-Sample #...: A9J090242-015 Work Order #...: LMANV1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-306

GC/MS Volatiles

Lot-Sample #...: A9J090242-016 Work Order #...: LMANX1AA Matrix.....: WG
 Date Sampled...: 10/08/09 09:20 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	0.31 J	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.67 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	0.55 J	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-306

GC/MS Volatiles

Lot-Sample #...: A9J090242-016 Work Order #...: LMANX1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-307

GC/MS Volatiles

Lot-Sample #...: A9J090242-017 Work Order #...: LMAN11AA Matrix.....: WG
 Date Sampled...: 10/08/09 09:45 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-307

GC/MS Volatiles

Lot-Sample #...: A9J090242-017 Work Order #...: LMAN11AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-308

GC/MS Volatiles

Lot-Sample #...: A9J090242-018 Work Order #...: LMAN21AA Matrix.....: WG
 Date Sampled...: 10/08/09 10:00 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	0.36 J	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	0.30 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	1.5	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	8.1	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-308

GC/MS Volatiles

Lot-Sample #...: A9J090242-018 Work Order #...: LMAN21AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	0.38 J	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	10	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-309

GC/MS Volatiles

Lot-Sample #...: A9J090242-019 Work Order #...: LMAN31AA Matrix.....: WG
 Date Sampled...: 10/08/09 10:25 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.17 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	0.88 J	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	0.29 J	1.0	ug/L	0.19
cis-1,2-Dichloroethene	14	1.0	ug/L	0.17
trans-1,2-Dichloroethene	0.24 J	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-309

GC/MS Volatiles

Lot-Sample #...: A9J090242-019 Work Order #...: LMAN31AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	1.4	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	35	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	4.7	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-310

GC/MS Volatiles

Lot-Sample #...: A9J090242-020 Work Order #...: LMAPW1AA Matrix.....: WG
 Date Sampled...: 10/08/09 10:30 Date Received..: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date..: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	0.66 J	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-310

GC/MS Volatiles

Lot-Sample #...: A9J090242-020 Work Order #...: LMAPW1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.1	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-311

GC/MS Volatiles

Lot-Sample #...: A9J090242-021 Work Order #...: LMAP11AA Matrix.....: WG
 Date Sampled...: 10/08/09 11:00 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-311

GC/MS Volatiles

Lot-Sample #...: A9J090242-021 Work Order #...: LMAP11AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-312

GC/MS Volatiles

Lot-Sample #...: A9J090242-022 Work Order #...: LMAP41AA Matrix.....: WG
 Date Sampled...: 10/08/09 11:15 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.22 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	1.9 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-312

GC/MS Volatiles

Lot-Sample #...: A9J090242-022 Work Order #...: LMAP41AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	0.38 J	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	0.41 J	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-313

GC/MS Volatiles

Lot-Sample #...: A9J090242-023 Work Order #...: LMAP71AA Matrix.....: WG
 Date Sampled...: 10/08/09 11:30 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.21 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	0.53 J	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	2.3 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-313

GC/MS Volatiles

Lot-Sample #...: A9J090242-023 Work Order #...: LMAP71AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	0.39 J	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-314

GC/MS Volatiles

Lot-Sample #...: A9J090242-024 Work Order #...: LMAQA1AA Matrix.....: WG
 Date Sampled...: 10/08/09 11:45 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.82 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	3.5 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-314

GC/MS Volatiles

Lot-Sample #...: A9J090242-024 Work Order #...: LMAQA1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	0.49 J	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.2	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-315

GC/MS Volatiles

Lot-Sample #...: A9J090242-025 Work Order #...: LMAQC1AA Matrix.....: WG
 Date Sampled...: 10/08/09 13:30 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.28 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	4.8 J	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-315

GC/MS Volatiles

Lot-Sample #...: A9J090242-025 Work Order #...: LMAQC1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	0.62 J	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	0.56 J	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	89	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	80	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-316

GC/MS Volatiles

Lot-Sample #...: A9J090242-026 Work Order #...: LMAQE1AA Matrix.....: WG
 Date Sampled...: 10/08/09 13:40 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	0.16 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-316

GC/MS Volatiles

Lot-Sample #...: A9J090242-026 Work Order #...: LMAQE1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	0.48 J	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	2.1	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	80	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-317

GC/MS Volatiles

Lot-Sample #...: A9J090242-027 Work Order #...: LMAQJ1AA Matrix.....: WG
 Date Sampled...: 10/08/09 13:55 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-317

GC/MS Volatiles

Lot-Sample #...: A9J090242-027 Work Order #...: LMAQJ1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	0.49 J	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-318

GC/MS Volatiles

Lot-Sample #...: A9J090242-028 Work Order #...: LMAQL1AA Matrix.....: WG
 Date Sampled...: 10/08/09 14:00 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	1.4	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-318

GC/MS Volatiles

Lot-Sample #...: A9J090242-028 Work Order #...: LMAQL1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	0.50 J	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.5	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-319

GC/MS Volatiles

Lot-Sample #...: A9J090242-029 Work Order #...: LMAQN1AA Matrix.....: WG
 Date Sampled...: 10/08/09 14:05 Date Received..: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date..: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	1.0	ug/L	0.41
2-Butanone	ND	25	ug/L	0.57
Carbon disulfide	ND	5.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Chloroethane	ND	1.0	ug/L	0.29
Chloroform	1.5	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.30
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.18
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	1.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
1,1-Dichloroethene	ND	1.0	ug/L	0.19
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
2-Hexanone	ND	50	ug/L	0.41
Isopropylbenzene	ND	5.0	ug/L	0.13
Methyl acetate	ND	10	ug/L	0.38
Methylene chloride	ND	5.0	ug/L	0.33
Methylcyclohexane	ND	1.0	ug/L	0.13
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100809-DR-319

GC/MS Volatiles

Lot-Sample #...: A9J090242-029 Work Order #...: LMAQN1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.15
1,1,1-Trichloroethane	0.50 J	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	1.5	1.0	ug/L	0.17
Trichlorofluoromethane	ND	1.0	ug/L	0.21
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.28
Vinyl chloride	ND	1.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	94	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9J07288
 MB Lot-Sample #: A9J150000-558
 Analysis Date...: 10/15/09
 Dilution Factor: 1

Work Order #...: LMNGK1AA
 Prep Date.....: 10/15/09
 Prep Batch #...: 9288558
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	0.50 J	5.0	ug/L	SW846 8260B
Methylcyclohexane	0.58 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9J07288

Work Order #...: LMNGK1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	84	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9J07288
 MB Lot-Sample #: A9J190000-076
 Analysis Date...: 10/15/09
 Dilution Factor: 1

Work Order #...: LMTDP1AA
 Prep Date.....: 10/15/09
 Prep Batch #...: 9292076
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9J07288

Work Order #...: LMTDP1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	85	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
Toluene-d8	82	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9J07288
 MB Lot-Sample #: A9J190000-286
 Analysis Date...: 10/17/09
 Dilution Factor: 1

Work Order #...: LMT6Q1AA
 Prep Date.....: 10/17/09
 Prep Batch #...: 9292286
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	0.66 J	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	2.0 J	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: 9J07288

Work Order #...: LMT6Q1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	87	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	81	(76 - 110)
4-Bromofluorobenzene	85	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMNGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J150000-558 LMNGK1AD-LCSD
 Prep Date.....: 10/15/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Acetone	10	9.0	ug/L	90		SW846 8260B
	10	9.9	ug/L	99	9.8	SW846 8260B
Benzene	10	8.6	ug/L	86		SW846 8260B
	10	8.8	ug/L	88	1.8	SW846 8260B
Bromodichloromethane	10	8.7	ug/L	87		SW846 8260B
	10	8.6 a	ug/L	86	0.92	SW846 8260B
Bromoform	10	9.0	ug/L	90		SW846 8260B
	10	9.3	ug/L	93	3.6	SW846 8260B
Bromomethane	10	10	ug/L	101		SW846 8260B
	10	13	ug/L	129	25	SW846 8260B
2-Butanone	10	8.3	ug/L	83		SW846 8260B
	10	8.2	ug/L	82	1.3	SW846 8260B
Carbon disulfide	10	8.8	ug/L	88		SW846 8260B
	10	8.9	ug/L	89	0.78	SW846 8260B
Carbon tetrachloride	10	10	ug/L	104		SW846 8260B
	10	11	ug/L	108	3.6	SW846 8260B
Chlorobenzene	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.11	SW846 8260B
Chloroethane	10	8.1	ug/L	81		SW846 8260B
	10	9.5	ug/L	95	15	SW846 8260B
Chloroform	10	9.1	ug/L	91		SW846 8260B
	10	9.1	ug/L	91	0.49	SW846 8260B
Chloromethane	10	7.1	ug/L	71		SW846 8260B
	10	8.0	ug/L	80	12	SW846 8260B
Cyclohexane	10	8.9	ug/L	89		SW846 8260B
	10	9.1	ug/L	91	2.8	SW846 8260B
Dibromochloromethane	10	8.9	ug/L	89		SW846 8260B
	10	9.1	ug/L	91	1.6	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	8.5	ug/L	85		SW846 8260B
	10	8.9	ug/L	89	4.5	SW846 8260B
1,2-Dibromoethane	10	9.0	ug/L	90		SW846 8260B
	10	9.0	ug/L	90	0.32	SW846 8260B
1,2-Dichlorobenzene	10	9.3	ug/L	93		SW846 8260B
	10	9.2	ug/L	92	1.5	SW846 8260B
1,3-Dichlorobenzene	10	9.2	ug/L	92		SW846 8260B
	10	9.3	ug/L	93	1.9	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMNGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J150000-558 LMNGK1AD-LCSD

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
1,4-Dichlorobenzene	10	9.3	ug/L	93		SW846 8260B
	10	9.4	ug/L	94	1.4	SW846 8260B
Dichlorodifluoromethane	10	6.1 a	ug/L	61		SW846 8260B
	10	6.9 a	ug/L	69	12	SW846 8260B
1,1-Dichloroethane	10	9.0	ug/L	90		SW846 8260B
	10	9.2	ug/L	92	1.5	SW846 8260B
1,2-Dichloroethane	10	8.9	ug/L	89		SW846 8260B
	10	8.7	ug/L	87	1.7	SW846 8260B
1,1-Dichloroethene	10	8.9	ug/L	89		SW846 8260B
	10	9.2	ug/L	92	3.1	SW846 8260B
cis-1,2-Dichloroethene	10	8.9	ug/L	89		SW846 8260B
	10	8.8	ug/L	88	0.89	SW846 8260B
trans-1,2-Dichloroethene	10	9.0	ug/L	90		SW846 8260B
	10	9.2	ug/L	92	1.9	SW846 8260B
1,2-Dichloropropane	10	8.9	ug/L	89		SW846 8260B
	10	8.9	ug/L	89	0.0	SW846 8260B
cis-1,3-Dichloropropene	10	7.9 a	ug/L	79		SW846 8260B
	10	8.0 a	ug/L	80	0.70	SW846 8260B
trans-1,3-Dichloropropene	10	7.8 a	ug/L	78		SW846 8260B
	10	8.0 a	ug/L	80	2.7	SW846 8260B
Ethylbenzene	10	9.5	ug/L	95		SW846 8260B
	10	9.7	ug/L	97	1.9	SW846 8260B
2-Hexanone	10	8.8	ug/L	88		SW846 8260B
	10	8.8	ug/L	88	0.17	SW846 8260B
Isopropylbenzene	10	9.7	ug/L	97		SW846 8260B
	10	9.9	ug/L	99	2.7	SW846 8260B
Methyl acetate	10	7.3	ug/L	73		SW846 8260B
	10	6.7 a	ug/L	67	7.9	SW846 8260B
Methylene chloride	10	9.1	ug/L	91		SW846 8260B
	10	9.1	ug/L	91	0.45	SW846 8260B
Methylcyclohexane	10	8.7	ug/L	87		SW846 8260B
	10	9.2	ug/L	92	5.2	SW846 8260B
4-Methyl-2-pentanone	10	8.1	ug/L	81		SW846 8260B
	10	8.2	ug/L	82	1.4	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	8.6	ug/L	86		SW846 8260B
	10	8.6	ug/L	86	0.25	SW846 8260B
Styrene	10	9.5	ug/L	95		SW846 8260B
	10	9.6	ug/L	96	0.67	SW846 8260B
1,1,2,2-Tetrachloroethane	10	7.9 a	ug/L	79		SW846 8260B
	10	8.1 a	ug/L	81	1.5	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMNGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J150000-558 LMNGK1AD-LCSD

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Tetrachloroethene	10	10	ug/L	103		SW846 8260B
	10	11	ug/L	107	3.1	SW846 8260B
Toluene	10	9.0	ug/L	90		SW846 8260B
	10	9.0	ug/L	90	0.14	SW846 8260B
1,2,4-Trichloro- benzene	10	9.3	ug/L	93		SW846 8260B
	10	9.7	ug/L	97	4.0	SW846 8260B
1,1,1-Trichloroethane	10	9.7	ug/L	97		SW846 8260B
	10	9.7	ug/L	97	0.070	SW846 8260B
1,1,2-Trichloroethane	10	8.8	ug/L	88		SW846 8260B
	10	8.6	ug/L	86	2.2	SW846 8260B
Trichloroethene	10	9.2	ug/L	92		SW846 8260B
	10	9.4	ug/L	94	1.4	SW846 8260B
Trichlorofluoromethane	10	15 a	ug/L	147		SW846 8260B
	10	16 a	ug/L	162	9.9	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	16 a	ug/L	162		SW846 8260B
	10	17 a	ug/L	166	2.5	SW846 8260B
Vinyl chloride	10	9.6	ug/L	96		SW846 8260B
	10	9.9	ug/L	99	3.0	SW846 8260B
Xylenes (total)	30	30	ug/L	99		SW846 8260B
	30	29	ug/L	98	1.0	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	89	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
	85	(61 - 128)
Toluene-d8	92	(76 - 110)
	91	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	99	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMNGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J150000-558 LMNGK1AD-LCSD
 Prep Date.....: 10/15/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acetone	90	(22 - 200)			SW846 8260B
	99	(22 - 200)	9.8	(0-95)	SW846 8260B
Benzene	86	(80 - 116)			SW846 8260B
	88	(80 - 116)	1.8	(0-20)	SW846 8260B
Bromodichloromethane	87	(87 - 130)			SW846 8260B
	86 a	(87 - 130)	0.92	(0-30)	SW846 8260B
Bromoform	90	(76 - 150)			SW846 8260B
	93	(76 - 150)	3.6	(0-30)	SW846 8260B
Bromomethane	101	(64 - 129)			SW846 8260B
	129	(64 - 129)	25	(0-30)	SW846 8260B
2-Butanone	83	(28 - 237)			SW846 8260B
	82	(28 - 237)	1.3	(0-65)	SW846 8260B
Carbon disulfide	88	(73 - 139)			SW846 8260B
	89	(73 - 139)	0.78	(0-30)	SW846 8260B
Carbon tetrachloride	104	(75 - 149)			SW846 8260B
	108	(75 - 149)	3.6	(0-30)	SW846 8260B
Chlorobenzene	94	(76 - 117)			SW846 8260B
	94	(76 - 117)	0.11	(0-20)	SW846 8260B
Chloroethane	81	(66 - 126)			SW846 8260B
	95	(66 - 126)	15	(0-30)	SW846 8260B
Chloroform	91	(84 - 128)			SW846 8260B
	91	(84 - 128)	0.49	(0-30)	SW846 8260B
Chloromethane	71	(48 - 123)			SW846 8260B
	80	(48 - 123)	12	(0-30)	SW846 8260B
Cyclohexane	89	(70 - 130)			SW846 8260B
	91	(70 - 130)	2.8	(0-30)	SW846 8260B
Dibromochloromethane	89	(81 - 138)			SW846 8260B
	91	(81 - 138)	1.6	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	85	(70 - 130)			SW846 8260B
	89	(70 - 130)	4.5	(0-30)	SW846 8260B
1,2-Dibromoethane	90	(70 - 130)			SW846 8260B
	90	(70 - 130)	0.32	(0-30)	SW846 8260B
1,2-Dichlorobenzene	93	(70 - 130)			SW846 8260B
	92	(70 - 130)	1.5	(0-30)	SW846 8260B
1,3-Dichlorobenzene	92	(70 - 130)			SW846 8260B
	93	(70 - 130)	1.9	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMNGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J150000-558 LMNGK1AD-LCSD

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
1,4-Dichlorobenzene	93	(70 - 130)			SW846 8260B
	94	(70 - 130)	1.4	(0-30)	SW846 8260B
Dichlorodifluoromethane	61 a	(70 - 130)			SW846 8260B
	69 a	(70 - 130)	12	(0-30)	SW846 8260B
1,1-Dichloroethane	90	(86 - 123)			SW846 8260B
	92	(86 - 123)	1.5	(0-30)	SW846 8260B
1,2-Dichloroethane	89	(79 - 136)			SW846 8260B
	87	(79 - 136)	1.7	(0-30)	SW846 8260B
1,1-Dichloroethene	89	(63 - 130)			SW846 8260B
	92	(63 - 130)	3.1	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	89	(85 - 113)			SW846 8260B
	88	(85 - 113)	0.89	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	90	(80 - 120)			SW846 8260B
	92	(80 - 120)	1.9	(0-30)	SW846 8260B
1,2-Dichloropropane	89	(82 - 115)			SW846 8260B
	89	(82 - 115)	0.0	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	79 a	(84 - 130)			SW846 8260B
	80 a	(84 - 130)	0.70	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	78 a	(84 - 130)			SW846 8260B
	80 a	(84 - 130)	2.7	(0-30)	SW846 8260B
Ethylbenzene	95	(86 - 116)			SW846 8260B
	97	(86 - 116)	1.9	(0-30)	SW846 8260B
2-Hexanone	88	(35 - 200)			SW846 8260B
	88	(35 - 200)	0.17	(0-52)	SW846 8260B
Isopropylbenzene	97	(70 - 130)			SW846 8260B
	99	(70 - 130)	2.7	(0-30)	SW846 8260B
Methyl acetate	73	(70 - 130)			SW846 8260B
	67 a	(70 - 130)	7.9	(0-30)	SW846 8260B
Methylene chloride	91	(78 - 118)			SW846 8260B
	91	(78 - 118)	0.45	(0-30)	SW846 8260B
Methylcyclohexane	87	(70 - 130)			SW846 8260B
	92	(70 - 130)	5.2	(0-30)	SW846 8260B
4-Methyl-2-pentanone	81	(78 - 141)			SW846 8260B
	82	(78 - 141)	1.4	(0-32)	SW846 8260B
Methyl tert-butyl ether (MTBE)	86	(70 - 130)			SW846 8260B
	86	(70 - 130)	0.25	(0-30)	SW846 8260B
Styrene	95	(85 - 117)			SW846 8260B
	96	(85 - 117)	0.67	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	79 a	(85 - 118)			SW846 8260B
	81 a	(85 - 118)	1.5	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 **Work Order #...**: LMNGK1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A9J150000-558 LMNGK1AD-LCSD

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Tetrachloroethene	103	(88 - 113)			SW846 8260B
	107	(88 - 113)	3.1	(0-30)	SW846 8260B
Toluene	90	(74 - 119)			SW846 8260B
	90	(74 - 119)	0.14	(0-20)	SW846 8260B
1,2,4-Trichloro- benzene	93	(70 - 130)			SW846 8260B
	97	(70 - 130)	4.0	(0-30)	SW846 8260B
1,1,1-Trichloroethane	97	(78 - 140)			SW846 8260B
	97	(78 - 140)	0.070	(0-30)	SW846 8260B
1,1,2-Trichloroethane	88	(83 - 122)			SW846 8260B
	86	(83 - 122)	2.2	(0-30)	SW846 8260B
Trichloroethene	92	(75 - 122)			SW846 8260B
	94	(75 - 122)	1.4	(0-20)	SW846 8260B
Trichlorofluoromethane	147 a	(70 - 130)			SW846 8260B
	162 a	(70 - 130)	9.9	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	162 a	(70 - 130)			SW846 8260B
	166 a	(70 - 130)	2.5	(0-30)	SW846 8260B
Vinyl chloride	96	(61 - 120)			SW846 8260B
	99	(61 - 120)	3.0	(0-30)	SW846 8260B
Xylenes (total)	99	(87 - 116)			SW846 8260B
	98	(87 - 116)	1.0	(0-30)	SW846 8260B

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	89	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
	85	(61 - 128)
Toluene-d8	92	(76 - 110)
	91	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	99	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMTDP1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-076 LMTDP1AD-LCSD
 Prep Date.....: 10/15/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Acetone	10	12	ug/L	119		SW846 8260B
	10	12	ug/L	123	3.4	SW846 8260B
Benzene	10	9.4	ug/L	94		SW846 8260B
	10	9.4	ug/L	94	0.010	SW846 8260B
Bromodichloromethane	10	11	ug/L	106		SW846 8260B
	10	11	ug/L	107	1.0	SW846 8260B
Bromoform	10	12	ug/L	122		SW846 8260B
	10	12	ug/L	122	0.23	SW846 8260B
Bromomethane	10	12	ug/L	122		SW846 8260B
	10	12	ug/L	122	0.17	SW846 8260B
2-Butanone	10	9.1	ug/L	91		SW846 8260B
	10	9.6	ug/L	96	4.9	SW846 8260B
Carbon disulfide	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	104	1.5	SW846 8260B
Carbon tetrachloride	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	104	1.3	SW846 8260B
Chlorobenzene	10	9.2	ug/L	92		SW846 8260B
	10	9.1	ug/L	91	1.9	SW846 8260B
Chloroethane	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	102	0.81	SW846 8260B
Chloroform	10	9.8	ug/L	98		SW846 8260B
	10	10	ug/L	101	2.4	SW846 8260B
Chloromethane	10	8.5	ug/L	85		SW846 8260B
	10	8.2	ug/L	82	3.0	SW846 8260B
Cyclohexane	10	7.6	ug/L	76		SW846 8260B
	10	7.5	ug/L	75	1.6	SW846 8260B
Dibromochloromethane	10	11	ug/L	109		SW846 8260B
	10	11	ug/L	106	3.1	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	11	ug/L	107		SW846 8260B
	10	10	ug/L	104	3.1	SW846 8260B
1,2-Dibromoethane	10	9.6	ug/L	96		SW846 8260B
	10	9.4	ug/L	94	1.8	SW846 8260B
1,2-Dichlorobenzene	10	10	ug/L	101		SW846 8260B
	10	9.8	ug/L	98	2.8	SW846 8260B
1,3-Dichlorobenzene	10	8.8	ug/L	88		SW846 8260B
	10	8.8	ug/L	88	0.10	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMTDP1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-076 LMTDP1AD-LCSD

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
1,4-Dichlorobenzene	10	8.8	ug/L	88		SW846 8260B
	10	8.9	ug/L	89	1.1	SW846 8260B
Dichlorodifluoromethane	10	8.6	ug/L	86		SW846 8260B
	10	8.7	ug/L	87	0.64	SW846 8260B
1,1-Dichloroethane	10	10	ug/L	100		SW846 8260B
	10	10	ug/L	101	1.5	SW846 8260B
1,2-Dichloroethane	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	103	0.70	SW846 8260B
1,1-Dichloroethene	10	9.6	ug/L	96		SW846 8260B
	10	9.9	ug/L	99	3.0	SW846 8260B
cis-1,2-Dichloroethene	10	9.1	ug/L	91		SW846 8260B
	10	9.3	ug/L	93	2.2	SW846 8260B
trans-1,2-Dichloroethene	10	9.3	ug/L	93		SW846 8260B
	10	9.2	ug/L	92	1.2	SW846 8260B
1,2-Dichloropropane	10	9.7	ug/L	97		SW846 8260B
	10	9.7	ug/L	97	0.44	SW846 8260B
cis-1,3-Dichloropropene	10	9.0	ug/L	90		SW846 8260B
	10	9.4	ug/L	94	3.7	SW846 8260B
trans-1,3-Dichloropropene	10	8.7	ug/L	87		SW846 8260B
	10	8.4	ug/L	84	3.2	SW846 8260B
Ethylbenzene	10	9.4	ug/L	94		SW846 8260B
	10	9.0	ug/L	90	4.1	SW846 8260B
2-Hexanone	10	8.4	ug/L	84		SW846 8260B
	10	8.2	ug/L	82	3.2	SW846 8260B
Isopropylbenzene	10	9.8	ug/L	98		SW846 8260B
	10	9.3	ug/L	93	5.2	SW846 8260B
Methyl acetate	10	8.0	ug/L	80		SW846 8260B
	10	8.4	ug/L	84	4.6	SW846 8260B
Methylene chloride	10	10	ug/L	102		SW846 8260B
	10	11	ug/L	106	3.8	SW846 8260B
Methylcyclohexane	10	6.8 a	ug/L	68		SW846 8260B
	10	6.7 a	ug/L	67	0.41	SW846 8260B
4-Methyl-2-pentanone	10	8.5	ug/L	85		SW846 8260B
	10	8.9	ug/L	89	4.3	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	8.8	ug/L	88		SW846 8260B
	10	9.2	ug/L	92	4.4	SW846 8260B
Styrene	10	9.9	ug/L	99		SW846 8260B
	10	9.7	ug/L	97	1.9	SW846 8260B
1,1,2,2-Tetrachloroethane	10	7.4 a	ug/L	74		SW846 8260B
	10	7.4 a	ug/L	74	0.14	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 **Work Order #...**: LMTDP1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A9J190000-076 LMTDP1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Tetrachloroethene	10	9.4	ug/L	94		SW846 8260B
	10	9.1	ug/L	91	3.3	SW846 8260B
Toluene	10	9.3	ug/L	93		SW846 8260B
	10	8.9	ug/L	89	3.9	SW846 8260B
1,2,4-Trichloro- benzene	10	5.5 a	ug/L	55		SW846 8260B
	10	5.8 a	ug/L	58	4.5	SW846 8260B
1,1,1-Trichloroethane	10	10	ug/L	104		SW846 8260B
	10	10	ug/L	104	0.070	SW846 8260B
1,1,2-Trichloroethane	10	9.5	ug/L	95		SW846 8260B
	10	9.2	ug/L	92	4.2	SW846 8260B
Trichloroethene	10	9.4	ug/L	94		SW846 8260B
	10	9.3	ug/L	93	1.2	SW846 8260B
Trichlorofluoromethane	10	12	ug/L	120		SW846 8260B
	10	12	ug/L	122	1.6	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	13	ug/L	130		SW846 8260B
	10	13 a	ug/L	132	1.8	SW846 8260B
Vinyl chloride	10	9.4	ug/L	94		SW846 8260B
	10	9.5	ug/L	95	0.91	SW846 8260B
Xylenes (total)	30	29	ug/L	98		SW846 8260B
	30	28	ug/L	94	4.6	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
	87	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	86	(61 - 128)
Toluene-d8	85	(76 - 110)
	83	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)
	96	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMTDP1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-076 LMTDP1AD-LCSD
 Prep Date.....: 10/15/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acetone	119	(22 - 200)			SW846 8260B
	123	(22 - 200)	3.4	(0-95)	SW846 8260B
Benzene	94	(80 - 116)			SW846 8260B
	94	(80 - 116)	0.010	(0-20)	SW846 8260B
Bromodichloromethane	106	(87 - 130)			SW846 8260B
	107	(87 - 130)	1.0	(0-30)	SW846 8260B
Bromoform	122	(76 - 150)			SW846 8260B
	122	(76 - 150)	0.23	(0-30)	SW846 8260B
Bromomethane	122	(64 - 129)			SW846 8260B
	122	(64 - 129)	0.17	(0-30)	SW846 8260B
2-Butanone	91	(28 - 237)			SW846 8260B
	96	(28 - 237)	4.9	(0-65)	SW846 8260B
Carbon disulfide	103	(73 - 139)			SW846 8260B
	104	(73 - 139)	1.5	(0-30)	SW846 8260B
Carbon tetrachloride	103	(75 - 149)			SW846 8260B
	104	(75 - 149)	1.3	(0-30)	SW846 8260B
Chlorobenzene	92	(76 - 117)			SW846 8260B
	91	(76 - 117)	1.9	(0-20)	SW846 8260B
Chloroethane	102	(66 - 126)			SW846 8260B
	102	(66 - 126)	0.81	(0-30)	SW846 8260B
Chloroform	98	(84 - 128)			SW846 8260B
	101	(84 - 128)	2.4	(0-30)	SW846 8260B
Chloromethane	85	(48 - 123)			SW846 8260B
	82	(48 - 123)	3.0	(0-30)	SW846 8260B
Cyclohexane	76	(70 - 130)			SW846 8260B
	75	(70 - 130)	1.6	(0-30)	SW846 8260B
Dibromochloromethane	109	(81 - 138)			SW846 8260B
	106	(81 - 138)	3.1	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	107	(70 - 130)			SW846 8260B
	104	(70 - 130)	3.1	(0-30)	SW846 8260B
1,2-Dibromoethane	96	(70 - 130)			SW846 8260B
	94	(70 - 130)	1.8	(0-30)	SW846 8260B
1,2-Dichlorobenzene	101	(70 - 130)			SW846 8260B
	98	(70 - 130)	2.8	(0-30)	SW846 8260B
1,3-Dichlorobenzene	88	(70 - 130)			SW846 8260B
	88	(70 - 130)	0.10	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMTDP1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-076 LMTDP1AD-LCSD

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
1,4-Dichlorobenzene	88	(70 - 130)			SW846 8260B
	89	(70 - 130)	1.1	(0-30)	SW846 8260B
Dichlorodifluoromethane	86	(70 - 130)			SW846 8260B
	87	(70 - 130)	0.64	(0-30)	SW846 8260B
1,1-Dichloroethane	100	(86 - 123)			SW846 8260B
	101	(86 - 123)	1.5	(0-30)	SW846 8260B
1,2-Dichloroethane	102	(79 - 136)			SW846 8260B
	103	(79 - 136)	0.70	(0-30)	SW846 8260B
1,1-Dichloroethene	96	(63 - 130)			SW846 8260B
	99	(63 - 130)	3.0	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	91	(85 - 113)			SW846 8260B
	93	(85 - 113)	2.2	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	93	(80 - 120)			SW846 8260B
	92	(80 - 120)	1.2	(0-30)	SW846 8260B
1,2-Dichloropropane	97	(82 - 115)			SW846 8260B
	97	(82 - 115)	0.44	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	90	(84 - 130)			SW846 8260B
	94	(84 - 130)	3.7	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	87	(84 - 130)			SW846 8260B
	84	(84 - 130)	3.2	(0-30)	SW846 8260B
Ethylbenzene	94	(86 - 116)			SW846 8260B
	90	(86 - 116)	4.1	(0-30)	SW846 8260B
2-Hexanone	84	(35 - 200)			SW846 8260B
	82	(35 - 200)	3.2	(0-52)	SW846 8260B
Isopropylbenzene	98	(70 - 130)			SW846 8260B
	93	(70 - 130)	5.2	(0-30)	SW846 8260B
Methyl acetate	80	(70 - 130)			SW846 8260B
	84	(70 - 130)	4.6	(0-30)	SW846 8260B
Methylene chloride	102	(78 - 118)			SW846 8260B
	106	(78 - 118)	3.8	(0-30)	SW846 8260B
Methylcyclohexane	68 a	(70 - 130)			SW846 8260B
	67 a	(70 - 130)	0.41	(0-30)	SW846 8260B
4-Methyl-2-pentanone	85	(78 - 141)			SW846 8260B
	89	(78 - 141)	4.3	(0-32)	SW846 8260B
Methyl tert-butyl ether (MTBE)	88	(70 - 130)			SW846 8260B
	92	(70 - 130)	4.4	(0-30)	SW846 8260B
Styrene	99	(85 - 117)			SW846 8260B
	97	(85 - 117)	1.9	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	74 a	(85 - 118)			SW846 8260B
	74 a	(85 - 118)	0.14	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 **Work Order #...**: LMTDPD1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A9J190000-076 LMTDPD1AD-LCSD

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	RPD	RPD <u>LIMITS</u>	<u>METHOD</u>
Tetrachloroethene	94	(88 - 113)			SW846 8260B
	91	(88 - 113)	3.3	(0-30)	SW846 8260B
Toluene	93	(74 - 119)			SW846 8260B
	89	(74 - 119)	3.9	(0-20)	SW846 8260B
1,2,4-Trichloro- benzene	55 a	(70 - 130)			SW846 8260B
	58 a	(70 - 130)	4.5	(0-30)	SW846 8260B
1,1,1-Trichloroethane	104	(78 - 140)			SW846 8260B
	104	(78 - 140)	0.070	(0-30)	SW846 8260B
1,1,2-Trichloroethane	95	(83 - 122)			SW846 8260B
	92	(83 - 122)	4.2	(0-30)	SW846 8260B
Trichloroethene	94	(75 - 122)			SW846 8260B
	93	(75 - 122)	1.2	(0-20)	SW846 8260B
Trichlorofluoromethane	120	(70 - 130)			SW846 8260B
	122	(70 - 130)	1.6	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	130	(70 - 130)			SW846 8260B
	132 a	(70 - 130)	1.8	(0-30)	SW846 8260B
Vinyl chloride	94	(61 - 120)			SW846 8260B
	95	(61 - 120)	0.91	(0-30)	SW846 8260B
Xylenes (total)	98	(87 - 116)			SW846 8260B
	94	(87 - 116)	4.6	(0-30)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
	87	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	86	(61 - 128)
Toluene-d8	85	(76 - 110)
	83	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)
	96	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMT6Q1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-286 LMT6Q1AD-LCSD
 Prep Date.....: 10/16/09 Analysis Date...: 10/16/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Acetone	10	13	ug/L	129		SW846 8260B
	10	12	ug/L	121	6.6	SW846 8260B
Benzene	10	9.7	ug/L	97		SW846 8260B
	10	9.7	ug/L	97	0.28	SW846 8260B
Bromodichloromethane	10	11	ug/L	110		SW846 8260B
	10	11	ug/L	109	1.0	SW846 8260B
Bromoform	10	13	ug/L	126		SW846 8260B
	10	13	ug/L	128	1.6	SW846 8260B
Bromomethane	10	14 a	ug/L	140		SW846 8260B
	10	14 a	ug/L	138	2.0	SW846 8260B
2-Butanone	10	11	ug/L	105		SW846 8260B
	10	10	ug/L	102	3.8	SW846 8260B
Carbon disulfide	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	102	0.71	SW846 8260B
Carbon tetrachloride	10	11	ug/L	107		SW846 8260B
	10	11	ug/L	107	0.28	SW846 8260B
Chlorobenzene	10	9.3	ug/L	93		SW846 8260B
	10	9.2	ug/L	92	0.74	SW846 8260B
Chloroethane	10	12	ug/L	118		SW846 8260B
	10	12	ug/L	124	5.2	SW846 8260B
Chloroform	10	10	ug/L	104		SW846 8260B
	10	10	ug/L	101	2.6	SW846 8260B
Chloromethane	10	9.2	ug/L	92		SW846 8260B
	10	9.2	ug/L	92	0.10	SW846 8260B
Cyclohexane	10	8.1	ug/L	81		SW846 8260B
	10	8.1	ug/L	81	0.38	SW846 8260B
Dibromochloromethane	10	11	ug/L	110		SW846 8260B
	10	11	ug/L	111	0.34	SW846 8260B
1,2-Dibromo-3-chloro- propane	10	12	ug/L	122		SW846 8260B
	10	11	ug/L	114	6.7	SW846 8260B
1,2-Dibromoethane	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	101	0.55	SW846 8260B
1,2-Dichlorobenzene	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	103	1.8	SW846 8260B
1,3-Dichlorobenzene	10	9.0	ug/L	90		SW846 8260B
	10	8.9	ug/L	89	0.55	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMT6Q1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-286 LMT6Q1AD-LCSD

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
1,4-Dichlorobenzene	10	8.9	ug/L	89		SW846 8260B
	10	9.0	ug/L	90	1.4	SW846 8260B
Dichlorodifluoromethane	10	11	ug/L	109		SW846 8260B
	10	11	ug/L	110	0.94	SW846 8260B
1,1-Dichloroethane	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	103	0.27	SW846 8260B
1,2-Dichloroethane	10	11	ug/L	105		SW846 8260B
	10	10	ug/L	104	0.92	SW846 8260B
1,1-Dichloroethene	10	9.7	ug/L	97		SW846 8260B
	10	9.8	ug/L	98	0.56	SW846 8260B
cis-1,2-Dichloroethene	10	9.4	ug/L	94		SW846 8260B
	10	9.6	ug/L	96	1.4	SW846 8260B
trans-1,2-Dichloroethene	10	9.6	ug/L	96		SW846 8260B
	10	9.5	ug/L	95	0.73	SW846 8260B
1,2-Dichloropropane	10	9.8	ug/L	98		SW846 8260B
	10	9.9	ug/L	99	1.0	SW846 8260B
cis-1,3-Dichloropropene	10	9.2	ug/L	92		SW846 8260B
	10	9.3	ug/L	93	1.5	SW846 8260B
trans-1,3-Dichloropropene	10	8.7	ug/L	87		SW846 8260B
	10	8.8	ug/L	88	0.30	SW846 8260B
Ethylbenzene	10	9.3	ug/L	93		SW846 8260B
	10	9.5	ug/L	95	2.1	SW846 8260B
2-Hexanone	10	9.6	ug/L	96		SW846 8260B
	10	9.6	ug/L	96	0.36	SW846 8260B
Isopropylbenzene	10	9.6	ug/L	96		SW846 8260B
	10	9.6	ug/L	96	0.58	SW846 8260B
Methyl acetate	10	8.9	ug/L	89		SW846 8260B
	10	8.9	ug/L	89	0.18	SW846 8260B
Methylene chloride	10	12 a	ug/L	124		SW846 8260B
	10	12 a	ug/L	124	0.050	SW846 8260B
Methylcyclohexane	10	7.0	ug/L	70		SW846 8260B
	10	7.0	ug/L	70	0.14	SW846 8260B
4-Methyl-2-pentanone	10	9.8	ug/L	98		SW846 8260B
	10	9.8	ug/L	98	0.55	SW846 8260B
Methyl tert-butyl ether (MTBE)	10	9.6	ug/L	96		SW846 8260B
	10	9.7	ug/L	97	0.58	SW846 8260B
Styrene	10	9.8	ug/L	98		SW846 8260B
	10	9.9	ug/L	99	1.2	SW846 8260B
1,1,2,2-Tetrachloroethane	10	8.0 a	ug/L	80		SW846 8260B
	10	7.9 a	ug/L	79	0.21	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 **Work Order #...**: LMT6Q1AC-LCS **Matrix.....**: WATER
LCS Lot-Sample#: A9J190000-286 LMT6Q1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Tetrachloroethene	10	9.1	ug/L	91		SW846 8260B
	10	9.0	ug/L	90	0.79	SW846 8260B
Toluene	10	9.2	ug/L	92		SW846 8260B
	10	9.2	ug/L	92	0.27	SW846 8260B
1,2,4-Trichloro- benzene	10	5.9 a	ug/L	59		SW846 8260B
	10	5.9 a	ug/L	59	0.49	SW846 8260B
1,1,1-Trichloroethane	10	11	ug/L	107		SW846 8260B
	10	11	ug/L	108	0.67	SW846 8260B
1,1,2-Trichloroethane	10	9.8	ug/L	98		SW846 8260B
	10	9.8	ug/L	98	0.30	SW846 8260B
Trichloroethene	10	9.7	ug/L	97		SW846 8260B
	10	9.5	ug/L	95	2.1	SW846 8260B
Trichlorofluoromethane	10	13 a	ug/L	134		SW846 8260B
	10	13 a	ug/L	134	0.12	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	10	15 a	ug/L	154		SW846 8260B
	10	15 a	ug/L	152	1.1	SW846 8260B
Vinyl chloride	10	10	ug/L	103		SW846 8260B
	10	10	ug/L	103	0.010	SW846 8260B
Xylenes (total)	30	29	ug/L	98		SW846 8260B
	30	29	ug/L	98	0.25	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	89	(61 - 128)
Toluene-d8	83	(76 - 110)
	83	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)
	98	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMT6Q1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-286 LMT6Q1AD-LCSD
 Prep Date.....: 10/16/09 Analysis Date...: 10/16/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acetone	129	(22 - 200)			SW846 8260B
	121	(22 - 200)	6.6	(0-95)	SW846 8260B
Benzene	97	(80 - 116)			SW846 8260B
	97	(80 - 116)	0.28	(0-20)	SW846 8260B
Bromodichloromethane	110	(87 - 130)			SW846 8260B
	109	(87 - 130)	1.0	(0-30)	SW846 8260B
Bromoform	126	(76 - 150)			SW846 8260B
	128	(76 - 150)	1.6	(0-30)	SW846 8260B
Bromomethane	140 a	(64 - 129)			SW846 8260B
	138 a	(64 - 129)	2.0	(0-30)	SW846 8260B
2-Butanone	105	(28 - 237)			SW846 8260B
	102	(28 - 237)	3.8	(0-65)	SW846 8260B
Carbon disulfide	103	(73 - 139)			SW846 8260B
	102	(73 - 139)	0.71	(0-30)	SW846 8260B
Carbon tetrachloride	107	(75 - 149)			SW846 8260B
	107	(75 - 149)	0.28	(0-30)	SW846 8260B
Chlorobenzene	93	(76 - 117)			SW846 8260B
	92	(76 - 117)	0.74	(0-20)	SW846 8260B
Chloroethane	118	(66 - 126)			SW846 8260B
	124	(66 - 126)	5.2	(0-30)	SW846 8260B
Chloroform	104	(84 - 128)			SW846 8260B
	101	(84 - 128)	2.6	(0-30)	SW846 8260B
Chloromethane	92	(48 - 123)			SW846 8260B
	92	(48 - 123)	0.10	(0-30)	SW846 8260B
Cyclohexane	81	(70 - 130)			SW846 8260B
	81	(70 - 130)	0.38	(0-30)	SW846 8260B
Dibromochloromethane	110	(81 - 138)			SW846 8260B
	111	(81 - 138)	0.34	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	122	(70 - 130)			SW846 8260B
	114	(70 - 130)	6.7	(0-30)	SW846 8260B
1,2-Dibromoethane	101	(70 - 130)			SW846 8260B
	101	(70 - 130)	0.55	(0-30)	SW846 8260B
1,2-Dichlorobenzene	102	(70 - 130)			SW846 8260B
	103	(70 - 130)	1.8	(0-30)	SW846 8260B
1,3-Dichlorobenzene	90	(70 - 130)			SW846 8260B
	89	(70 - 130)	0.55	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMT6Q1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-286 LMT6Q1AD-LCSD

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
1,4-Dichlorobenzene	89	(70 - 130)			SW846 8260B
	90	(70 - 130)	1.4	(0-30)	SW846 8260B
Dichlorodifluoromethane	109	(70 - 130)			SW846 8260B
	110	(70 - 130)	0.94	(0-30)	SW846 8260B
1,1-Dichloroethane	103	(86 - 123)			SW846 8260B
	103	(86 - 123)	0.27	(0-30)	SW846 8260B
1,2-Dichloroethane	105	(79 - 136)			SW846 8260B
	104	(79 - 136)	0.92	(0-30)	SW846 8260B
1,1-Dichloroethene	97	(63 - 130)			SW846 8260B
	98	(63 - 130)	0.56	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	94	(85 - 113)			SW846 8260B
	96	(85 - 113)	1.4	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	96	(80 - 120)			SW846 8260B
	95	(80 - 120)	0.73	(0-30)	SW846 8260B
1,2-Dichloropropane	98	(82 - 115)			SW846 8260B
	99	(82 - 115)	1.0	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	92	(84 - 130)			SW846 8260B
	93	(84 - 130)	1.5	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	87	(84 - 130)			SW846 8260B
	88	(84 - 130)	0.30	(0-30)	SW846 8260B
Ethylbenzene	93	(86 - 116)			SW846 8260B
	95	(86 - 116)	2.1	(0-30)	SW846 8260B
2-Hexanone	96	(35 - 200)			SW846 8260B
	96	(35 - 200)	0.36	(0-52)	SW846 8260B
Isopropylbenzene	96	(70 - 130)			SW846 8260B
	96	(70 - 130)	0.58	(0-30)	SW846 8260B
Methyl acetate	89	(70 - 130)			SW846 8260B
	89	(70 - 130)	0.18	(0-30)	SW846 8260B
Methylene chloride	124 a	(78 - 118)			SW846 8260B
	124 a	(78 - 118)	0.050	(0-30)	SW846 8260B
Methylcyclohexane	70	(70 - 130)			SW846 8260B
	70	(70 - 130)	0.14	(0-30)	SW846 8260B
4-Methyl-2-pentanone	98	(78 - 141)			SW846 8260B
	98	(78 - 141)	0.55	(0-32)	SW846 8260B
Methyl tert-butyl ether (MTBE)	96	(70 - 130)			SW846 8260B
	97	(70 - 130)	0.58	(0-30)	SW846 8260B
Styrene	98	(85 - 117)			SW846 8260B
	99	(85 - 117)	1.2	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	80 a	(85 - 118)			SW846 8260B
	79 a	(85 - 118)	0.21	(0-30)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMT6Q1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A9J190000-286 LMT6Q1AD-LCSD

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Tetrachloroethene	91	(88 - 113)			SW846 8260B
	90	(88 - 113)	0.79	(0-30)	SW846 8260B
Toluene	92	(74 - 119)			SW846 8260B
	92	(74 - 119)	0.27	(0-20)	SW846 8260B
1,2,4-Trichloro- benzene	59 a	(70 - 130)			SW846 8260B
	59 a	(70 - 130)	0.49	(0-30)	SW846 8260B
1,1,1-Trichloroethane	107	(78 - 140)			SW846 8260B
	108	(78 - 140)	0.67	(0-30)	SW846 8260B
1,1,2-Trichloroethane	98	(83 - 122)			SW846 8260B
	98	(83 - 122)	0.30	(0-30)	SW846 8260B
Trichloroethene	97	(75 - 122)			SW846 8260B
	95	(75 - 122)	2.1	(0-20)	SW846 8260B
Trichlorofluoromethane	134 a	(70 - 130)			SW846 8260B
	134 a	(70 - 130)	0.12	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	154 a	(70 - 130)			SW846 8260B
	152 a	(70 - 130)	1.1	(0-30)	SW846 8260B
Vinyl chloride	103	(61 - 120)			SW846 8260B
	103	(61 - 120)	0.010	(0-30)	SW846 8260B
Xylenes (total)	98	(87 - 116)			SW846 8260B
	98	(87 - 116)	0.25	(0-30)	SW846 8260B

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	89	(61 - 128)
Toluene-d8	83	(76 - 110)
	83	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)
	98	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LL5021AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J070288-005 LL5021AD-MSD
 Date Sampled...: 10/06/09 11:00 Date Received...: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acetone	ND	10	7.5	ug/L	75		SW846 8260B
	ND	10	9.3	ug/L	93	20	SW846 8260B
Benzene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.1	ug/L	91	1.0	SW846 8260B
Bromodichloromethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.2	ug/L	92	0.35	SW846 8260B
Bromoform	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.1	ug/L	91	3.0	SW846 8260B
Bromomethane	ND	10	11	ug/L	112		SW846 8260B
	ND	10	12	ug/L	119	6.4	SW846 8260B
2-Butanone	ND	10	7.9	ug/L	79		SW846 8260B
	ND	10	8.7	ug/L	87	10	SW846 8260B
Carbon disulfide	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	8.9	ug/L	89	0.34	SW846 8260B
Carbon tetrachloride	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	107	0.06	SW846 8260B
Chlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.7	ug/L	97	3.8	SW846 8260B
Chloroethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.2	ug/L	92	1.5	SW846 8260B
Chloroform	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.6	ug/L	96	0.72	SW846 8260B
Chloromethane	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	8.2	ug/L	82	1.2	SW846 8260B
Cyclohexane	ND	10	7.7	ug/L	77		SW846 8260B
	ND	10	7.8	ug/L	78	1.5	SW846 8260B
Dibromochloromethane	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.3	ug/L	93	2.5	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	7.6	ug/L	76		SW846 8260B
	ND	10	8.2	ug/L	82	7.4	SW846 8260B
1,2-Dibromoethane	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	9.1	ug/L	91	7.2	SW846 8260B
1,2-Dichlorobenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.5	ug/L	95	2.9	SW846 8260B
1,3-Dichlorobenzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.5	ug/L	95	3.9	SW846 8260B
1,4-Dichlorobenzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.4	ug/L	94	3.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LL5021AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J070288-005 LL5021AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dichlorodifluoromethane	ND	10	5.9	ug/L	59 a		SW846 8260B
	ND	10	6.1	ug/L	61 a	4.6	SW846 8260B
1,1-Dichloroethane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.5	ug/L	95	0.28	SW846 8260B
1,2-Dichloroethane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.4	ug/L	94	2.0	SW846 8260B
1,1-Dichloroethene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.3	ug/L	93	3.5	SW846 8260B
cis-1,2-Dichloroethene	18	10	28	ug/L	93		SW846 8260B
	18	10	28	ug/L	92	0.19	SW846 8260B
trans-1,2-Dichloroethene	0.58	10	10	ug/L	95		SW846 8260B
	0.58	10	10	ug/L	95	0.06	SW846 8260B
1,2-Dichloropropane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.2	ug/L	92	0.64	SW846 8260B
cis-1,3-Dichloropropene	ND	10	7.0	ug/L	70 a		SW846 8260B
	ND	10	7.3	ug/L	73 a	4.0	SW846 8260B
trans-1,3-Dichloropropene	ND	10	7.5	ug/L	75		SW846 8260B
	ND	10	8.0	ug/L	80	6.9	SW846 8260B
Ethylbenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.8	ug/L	98	3.8	SW846 8260B
2-Hexanone	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	8.9	ug/L	89	10	SW846 8260B
Isopropylbenzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.6	ug/L	96	0.50	SW846 8260B
Methyl acetate	ND	10	6.2	ug/L	62 a		SW846 8260B
	ND	10	6.4	ug/L	64 a	2.5	SW846 8260B
Methylene chloride	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.3	ug/L	83	3.0	SW846 8260B
Methylcyclohexane	ND	10	7.1	ug/L	71		SW846 8260B
	ND	10	7.1	ug/L	71	0.59	SW846 8260B
4-Methyl-2-pentanone	ND	10	7.3	ug/L	73 a		SW846 8260B
	ND	10	7.9	ug/L	79 a	8.5	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	8.0	ug/L	80		SW846 8260B
	ND	10	8.5	ug/L	85	6.4	SW846 8260B
Styrene	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	10	ug/L	100	2.9	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	7.4	ug/L	74 a		SW846 8260B
	ND	10	8.4	ug/L	84 a	12	SW846 8260B
Tetrachloroethene	25	10	34	ug/L	90		SW846 8260B
	25	10	34	ug/L	90	0.09	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LL5021AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J070288-005 LL5021AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Toluene	ND	10	9.0	ug/L	90		SW846 8260B
	ND	10	9.3	ug/L	93	3.4	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.4	ug/L	94	8.7	SW846 8260B
1,1,1-Trichloroethane	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	9.6	ug/L	96	2.6	SW846 8260B
1,1,2-Trichloroethane	ND	10	8.3	ug/L	83 a		SW846 8260B
	ND	10	9.0	ug/L	90	8.3	SW846 8260B
Trichloroethene	5.5	10	15	ug/L	93		SW846 8260B
	5.5	10	15	ug/L	93	0.33	SW846 8260B
Trichlorofluoromethane	ND	10	15	ug/L	145 a		SW846 8260B
	ND	10	15	ug/L	145 a	0.09	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	14	ug/L	141 a		SW846 8260B
	ND	10	15	ug/L	146 a	3.4	SW846 8260B
Vinyl chloride	ND	10	10	ug/L	100		SW846 8260B
	ND	10	10	ug/L	100	0.74	SW846 8260B
Xylenes (total)	ND	30	29	ug/L	97		SW846 8260B
	ND	30	30	ug/L	100	3.6	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
	95	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	88	(61 - 128)
Toluene-d8	89	(76 - 110)
	92	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	100	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LL5021AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J070288-005 LL5021AD-MSD
 Date Sampled...: 10/06/09 11:00 Date Received...: 10/07/09
 Prep Date.....: 10/15/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9288558
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Acetone	75	(45 - 128)			SW846 8260B
	93	(45 - 128)	20	(0-30)	SW846 8260B
Benzene	90	(78 - 118)			SW846 8260B
	91	(78 - 118)	1.0	(0-20)	SW846 8260B
Bromodichloromethane	92	(80 - 146)			SW846 8260B
	92	(80 - 146)	0.35	(0-30)	SW846 8260B
Bromoform	88	(58 - 176)			SW846 8260B
	91	(58 - 176)	3.0	(0-30)	SW846 8260B
Bromomethane	112	(55 - 145)			SW846 8260B
	119	(55 - 145)	6.4	(0-30)	SW846 8260B
2-Butanone	79	(71 - 123)			SW846 8260B
	87	(71 - 123)	10	(0-30)	SW846 8260B
Carbon disulfide	89	(69 - 138)			SW846 8260B
	89	(69 - 138)	0.34	(0-41)	SW846 8260B
Carbon tetrachloride	107	(63 - 176)			SW846 8260B
	107	(63 - 176)	0.06	(0-30)	SW846 8260B
Chlorobenzene	94	(76 - 117)			SW846 8260B
	97	(76 - 117)	3.8	(0-20)	SW846 8260B
Chloroethane	91	(59 - 142)			SW846 8260B
	92	(59 - 142)	1.5	(0-30)	SW846 8260B
Chloroform	95	(83 - 141)			SW846 8260B
	96	(83 - 141)	0.72	(0-30)	SW846 8260B
Chloromethane	81	(40 - 137)			SW846 8260B
	82	(40 - 137)	1.2	(0-39)	SW846 8260B
Cyclohexane	77	(70 - 130)			SW846 8260B
	78	(70 - 130)	1.5	(0-30)	SW846 8260B
Dibromochloromethane	91	(71 - 158)			SW846 8260B
	93	(71 - 158)	2.5	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	76	(70 - 130)			SW846 8260B
	82	(70 - 130)	7.4	(0-30)	SW846 8260B
1,2-Dibromoethane	85	(70 - 130)			SW846 8260B
	91	(70 - 130)	7.2	(0-30)	SW846 8260B
1,2-Dichlorobenzene	92	(70 - 130)			SW846 8260B
	95	(70 - 130)	2.9	(0-30)	SW846 8260B
1,3-Dichlorobenzene	92	(70 - 130)			SW846 8260B
	95	(70 - 130)	3.9	(0-30)	SW846 8260B
1,4-Dichlorobenzene	91	(70 - 130)			SW846 8260B
	94	(70 - 130)	3.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LL5021AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J070288-005 LL5021AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dichlorodifluoromethane	59 a	(70 - 130)			SW846 8260B
	61 a	(70 - 130)	4.6	(0-30)	SW846 8260B
1,1-Dichloroethane	95	(88 - 127)			SW846 8260B
	95	(88 - 127)	0.28	(0-30)	SW846 8260B
1,2-Dichloroethane	92	(71 - 160)			SW846 8260B
	94	(71 - 160)	2.0	(0-30)	SW846 8260B
1,1-Dichloroethene	90	(62 - 130)			SW846 8260B
	93	(62 - 130)	3.5	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	93	(87 - 114)			SW846 8260B
	92	(87 - 114)	0.19	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	95	(85 - 116)			SW846 8260B
	95	(85 - 116)	0.06	(0-30)	SW846 8260B
1,2-Dichloropropane	93	(87 - 114)			SW846 8260B
	92	(87 - 114)	0.64	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	70 a	(82 - 130)			SW846 8260B
	73 a	(82 - 130)	4.0	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	75	(73 - 147)			SW846 8260B
	80	(73 - 147)	6.9	(0-30)	SW846 8260B
Ethylbenzene	94	(86 - 132)			SW846 8260B
	98	(86 - 132)	3.8	(0-30)	SW846 8260B
2-Hexanone	81	(81 - 128)			SW846 8260B
	89	(81 - 128)	10	(0-30)	SW846 8260B
Isopropylbenzene	95	(70 - 130)			SW846 8260B
	96	(70 - 130)	0.50	(0-30)	SW846 8260B
Methyl acetate	62 a	(70 - 130)			SW846 8260B
	64 a	(70 - 130)	2.5	(0-30)	SW846 8260B
Methylene chloride	86	(82 - 115)			SW846 8260B
	83	(82 - 115)	3.0	(0-30)	SW846 8260B
Methylcyclohexane	71	(70 - 130)			SW846 8260B
	71	(70 - 130)	0.59	(0-30)	SW846 8260B
4-Methyl-2-pentanone	73 a	(82 - 135)			SW846 8260B
	79 a	(82 - 135)	8.5	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	80	(70 - 130)			SW846 8260B
	85	(70 - 130)	6.4	(0-30)	SW846 8260B
Styrene	97	(83 - 120)			SW846 8260B
	100	(83 - 120)	2.9	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	74 a	(88 - 116)			SW846 8260B
	84 a	(88 - 116)	12	(0-30)	SW846 8260B
Tetrachloroethene	90	(85 - 121)			SW846 8260B
	90	(85 - 121)	0.09	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LL5021AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J070288-005 LL5021AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Toluene	90	(70 - 119)			SW846 8260B
	93	(70 - 119)	3.4	(0-20)	SW846 8260B
1,2,4-Trichloro- benzene	87	(70 - 130)			SW846 8260B
	94	(70 - 130)	8.7	(0-30)	SW846 8260B
1,1,1-Trichloroethane	99	(71 - 162)			SW846 8260B
	96	(71 - 162)	2.6	(0-30)	SW846 8260B
1,1,2-Trichloroethane	83 a	(86 - 129)			SW846 8260B
	90	(86 - 129)	8.3	(0-30)	SW846 8260B
Trichloroethene	93	(62 - 130)			SW846 8260B
	93	(62 - 130)	0.33	(0-20)	SW846 8260B
Trichlorofluoromethane	145 a	(70 - 130)			SW846 8260B
	145 a	(70 - 130)	0.09	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	141 a	(70 - 130)			SW846 8260B
	146 a	(70 - 130)	3.4	(0-30)	SW846 8260B
Vinyl chloride	100	(88 - 126)			SW846 8260B
	100	(88 - 126)	0.74	(0-30)	SW846 8260B
Xylenes (total)	97	(89 - 121)			SW846 8260B
	100	(89 - 121)	3.6	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	94	(73 - 122)
	95	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	88	(61 - 128)
Toluene-d8	89	(76 - 110)
	92	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)
	100	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAN31AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J090242-019 LMAN31AD-MSD
 Date Sampled...: 10/08/09 10:25 Date Received...: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date...: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acetone	ND	10	10	ug/L	100		SW846 8260B
	ND	10	11	ug/L	106	6.3	SW846 8260B
Benzene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.0	ug/L	90	2.4	SW846 8260B
Bromodichloromethane	ND	10	10	ug/L	103		SW846 8260B
	ND	10	10	ug/L	101	1.8	SW846 8260B
Bromoform	ND	10	12	ug/L	124		SW846 8260B
	ND	10	12	ug/L	124	0.24	SW846 8260B
Bromomethane	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	10	ug/L	100	15	SW846 8260B
2-Butanone	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	103	6.5	SW846 8260B
Carbon disulfide	ND	10	10	ug/L	102		SW846 8260B
	ND	10	9.5	ug/L	95	7.5	SW846 8260B
Carbon tetrachloride	ND	10	10	ug/L	103		SW846 8260B
	ND	10	10	ug/L	101	2.1	SW846 8260B
Chlorobenzene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	8.5	ug/L	85	2.0	SW846 8260B
Chloroethane	ND	10	11	ug/L	112		SW846 8260B
	ND	10	12	ug/L	117	4.9	SW846 8260B
Chloroform	0.17	10	10	ug/L	98		SW846 8260B
	0.17	10	9.8	ug/L	96	1.8	SW846 8260B
Chloromethane	ND	10	7.3	ug/L	73		SW846 8260B
	ND	10	7.6	ug/L	76	4.8	SW846 8260B
Cyclohexane	ND	10	7.1	ug/L	71		SW846 8260B
	ND	10	7.3	ug/L	73	3.4	SW846 8260B
Dibromochloromethane	ND	10	11	ug/L	106		SW846 8260B
	ND	10	10	ug/L	103	2.5	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	11	ug/L	106		SW846 8260B
	ND	10	12	ug/L	122	14	SW846 8260B
1,2-Dibromoethane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.5	ug/L	95	0.30	SW846 8260B
1,2-Dichlorobenzene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.1	ug/L	91	3.0	SW846 8260B
1,3-Dichlorobenzene	ND	10	8.1	ug/L	81		SW846 8260B
	ND	10	7.8	ug/L	78	3.5	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.2	ug/L	82		SW846 8260B
	ND	10	8.2	ug/L	82	0.02	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAN31AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J090242-019 LMAN31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dichlorodifluoromethane	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.4	ug/L	94	5.3	SW846 8260B
1,1-Dichloroethane	0.88	10	11	ug/L	98		SW846 8260B
	0.88	10	10	ug/L	95	2.4	SW846 8260B
1,2-Dichloroethane	ND	10	10	ug/L	102		SW846 8260B
	ND	10	9.8	ug/L	98	3.8	SW846 8260B
1,1-Dichloroethene	0.29	10	9.7	ug/L	95		SW846 8260B
	0.29	10	9.3	ug/L	90	5.2	SW846 8260B
cis-1,2-Dichloroethene	14	10	23	ug/L	89		SW846 8260B
	14	10	23	ug/L	85 a	1.4	SW846 8260B
trans-1,2-Dichloroethene	0.24	10	9.3	ug/L	90		SW846 8260B
	0.24	10	9.1	ug/L	88	1.7	SW846 8260B
1,2-Dichloropropane	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.1	ug/L	91	3.5	SW846 8260B
cis-1,3-Dichloropropene	ND	10	7.6	ug/L	76 a		SW846 8260B
	ND	10	7.6	ug/L	76 a	0.48	SW846 8260B
trans-1,3-Dichloropropene	ND	10	7.7	ug/L	77		SW846 8260B
	ND	10	7.5	ug/L	75	2.5	SW846 8260B
Ethylbenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.5	ug/L	85 a	1.5	SW846 8260B
2-Hexanone	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.5	ug/L	95	8.9	SW846 8260B
Isopropylbenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.5	ug/L	85	1.1	SW846 8260B
Methyl acetate	ND	10	6.7	ug/L	67 a		SW846 8260B
	ND	10	7.2	ug/L	72	7.2	SW846 8260B
Methylene chloride	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	8.9	ug/L	89	8.5	SW846 8260B
Methylcyclohexane	ND	10	6.2	ug/L	62 a		SW846 8260B
	ND	10	6.1	ug/L	61 a	1.6	SW846 8260B
4-Methyl-2-pentanone	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.5	ug/L	95	6.9	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.1	ug/L	91	0.58	SW846 8260B
Styrene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	8.8	ug/L	88	5.3	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	7.6	ug/L	76 a		SW846 8260B
	ND	10	7.8	ug/L	78 a	2.8	SW846 8260B
Tetrachloroethene	ND	10	8.4	ug/L	84 a		SW846 8260B
	ND	10	8.3	ug/L	83 a	1.8	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAN31AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J090242-019 LMAN31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Toluene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	8.4	ug/L	84	1.8	SW846 8260B
1,2,4-Trichloro-benzene	ND	10	4.9	ug/L	49 a		SW846 8260B
	ND	10	5.3	ug/L	53 a	6.9	SW846 8260B
1,1,1-Trichloroethane	1.4	10	12	ug/L	103		SW846 8260B
	1.4	10	11	ug/L	99	3.5	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.3	ug/L	93	0.41	SW846 8260B
Trichloroethene	35	10	39	ug/L	42 a		SW846 8260B
	35	10	40	ug/L	49 a	1.9	SW846 8260B
Trichlorofluoromethane	ND	10	12	ug/L	123		SW846 8260B
	ND	10	12	ug/L	119	2.9	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	13	ug/L	131 a		SW846 8260B
	ND	10	13	ug/L	134 a	2.6	SW846 8260B
Vinyl chloride	4.7	10	13	ug/L	82 a		SW846 8260B
	4.7	10	14	ug/L	90	5.8	SW846 8260B
Xylenes (total)	ND	30	27	ug/L	90		SW846 8260B
	ND	30	26	ug/L	88 a	2.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(73 - 122)
	91	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
	91	(61 - 128)
Toluene-d8	84	(76 - 110)
	84	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)
	101	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAN31AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J090242-019 LMAN31AD-MSD
 Date Sampled...: 10/08/09 10:25 Date Received...: 10/09/09
 Prep Date.....: 10/16/09 Analysis Date...: 10/16/09
 Prep Batch #...: 9292076
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Acetone	100	(45 - 128)			SW846 8260B
	106	(45 - 128)	6.3	(0-30)	SW846 8260B
Benzene	92	(78 - 118)			SW846 8260B
	90	(78 - 118)	2.4	(0-20)	SW846 8260B
Bromodichloromethane	103	(80 - 146)			SW846 8260B
	101	(80 - 146)	1.8	(0-30)	SW846 8260B
Bromoform	124	(58 - 176)			SW846 8260B
	124	(58 - 176)	0.24	(0-30)	SW846 8260B
Bromomethane	87	(55 - 145)			SW846 8260B
	100	(55 - 145)	15	(0-30)	SW846 8260B
2-Butanone	96	(71 - 123)			SW846 8260B
	103	(71 - 123)	6.5	(0-30)	SW846 8260B
Carbon disulfide	102	(69 - 138)			SW846 8260B
	95	(69 - 138)	7.5	(0-41)	SW846 8260B
Carbon tetrachloride	103	(63 - 176)			SW846 8260B
	101	(63 - 176)	2.1	(0-30)	SW846 8260B
Chlorobenzene	87	(76 - 117)			SW846 8260B
	85	(76 - 117)	2.0	(0-20)	SW846 8260B
Chloroethane	112	(59 - 142)			SW846 8260B
	117	(59 - 142)	4.9	(0-30)	SW846 8260B
Chloroform	98	(83 - 141)			SW846 8260B
	96	(83 - 141)	1.8	(0-30)	SW846 8260B
Chloromethane	73	(40 - 137)			SW846 8260B
	76	(40 - 137)	4.8	(0-39)	SW846 8260B
Cyclohexane	71	(70 - 130)			SW846 8260B
	73	(70 - 130)	3.4	(0-30)	SW846 8260B
Dibromochloromethane	106	(71 - 158)			SW846 8260B
	103	(71 - 158)	2.5	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	106	(70 - 130)			SW846 8260B
	122	(70 - 130)	14	(0-30)	SW846 8260B
1,2-Dibromoethane	95	(70 - 130)			SW846 8260B
	95	(70 - 130)	0.30	(0-30)	SW846 8260B
1,2-Dichlorobenzene	93	(70 - 130)			SW846 8260B
	91	(70 - 130)	3.0	(0-30)	SW846 8260B
1,3-Dichlorobenzene	81	(70 - 130)			SW846 8260B
	78	(70 - 130)	3.5	(0-30)	SW846 8260B
1,4-Dichlorobenzene	82	(70 - 130)			SW846 8260B
	82	(70 - 130)	0.02	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAN31AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J090242-019 LMAN31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dichlorodifluoromethane	89	(70 - 130)			SW846 8260B
	94	(70 - 130)	5.3	(0-30)	SW846 8260B
1,1-Dichloroethane	98	(88 - 127)			SW846 8260B
	95	(88 - 127)	2.4	(0-30)	SW846 8260B
1,2-Dichloroethane	102	(71 - 160)			SW846 8260B
	98	(71 - 160)	3.8	(0-30)	SW846 8260B
1,1-Dichloroethene	95	(62 - 130)			SW846 8260B
	90	(62 - 130)	5.2	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	89	(87 - 114)			SW846 8260B
	85 a	(87 - 114)	1.4	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	90	(85 - 116)			SW846 8260B
	88	(85 - 116)	1.7	(0-30)	SW846 8260B
1,2-Dichloropropane	95	(87 - 114)			SW846 8260B
	91	(87 - 114)	3.5	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	76 a	(82 - 130)			SW846 8260B
	76 a	(82 - 130)	0.48	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	77	(73 - 147)			SW846 8260B
	75	(73 - 147)	2.5	(0-30)	SW846 8260B
Ethylbenzene	86	(86 - 132)			SW846 8260B
	85 a	(86 - 132)	1.5	(0-30)	SW846 8260B
2-Hexanone	87	(81 - 128)			SW846 8260B
	95	(81 - 128)	8.9	(0-30)	SW846 8260B
Isopropylbenzene	86	(70 - 130)			SW846 8260B
	85	(70 - 130)	1.1	(0-30)	SW846 8260B
Methyl acetate	67 a	(70 - 130)			SW846 8260B
	72	(70 - 130)	7.2	(0-30)	SW846 8260B
Methylene chloride	97	(82 - 115)			SW846 8260B
	89	(82 - 115)	8.5	(0-30)	SW846 8260B
Methylcyclohexane	62 a	(70 - 130)			SW846 8260B
	61 a	(70 - 130)	1.6	(0-30)	SW846 8260B
4-Methyl-2-pentanone	88	(82 - 135)			SW846 8260B
	95	(82 - 135)	6.9	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	91	(70 - 130)			SW846 8260B
	91	(70 - 130)	0.58	(0-30)	SW846 8260B
Styrene	93	(83 - 120)			SW846 8260B
	88	(83 - 120)	5.3	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	76 a	(88 - 116)			SW846 8260B
	78 a	(88 - 116)	2.8	(0-30)	SW846 8260B
Tetrachloroethene	84 a	(85 - 121)			SW846 8260B
	83 a	(85 - 121)	1.8	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAN31AC-MS Matrix.....: WG
 MS Lot-Sample #: A9J090242-019 LMAN31AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Toluene	86	(70 - 119)			SW846 8260B
	84	(70 - 119)	1.8	(0-20)	SW846 8260B
1,2,4-Trichloro- benzene	49 a	(70 - 130)			SW846 8260B
	53 a	(70 - 130)	6.9	(0-30)	SW846 8260B
1,1,1-Trichloroethane	103	(71 - 162)			SW846 8260B
	99	(71 - 162)	3.5	(0-30)	SW846 8260B
1,1,2-Trichloroethane	93	(86 - 129)			SW846 8260B
	93	(86 - 129)	0.41	(0-30)	SW846 8260B
Trichloroethene	42 a	(62 - 130)			SW846 8260B
	49 a	(62 - 130)	1.9	(0-20)	SW846 8260B
Trichlorofluoromethane	123	(70 - 130)			SW846 8260B
	119	(70 - 130)	2.9	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	131 a	(70 - 130)			SW846 8260B
	134 a	(70 - 130)	2.6	(0-30)	SW846 8260B
Vinyl chloride	82 a	(88 - 126)			SW846 8260B
	90	(88 - 126)	5.8	(0-30)	SW846 8260B
Xylenes (total)	90	(89 - 121)			SW846 8260B
	88 a	(89 - 121)	2.2	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
	91	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
	91	(61 - 128)
Toluene-d8	84	(76 - 110)
	84	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)
	101	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAVG1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090253-002 LMAVG1AD-MSD
 Date Sampled...: 10/06/09 16:45 Date Received...: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date...: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acetone	1.8	10	13	ug/L	114		SW846 8260B
	1.8	10	15	ug/L	135 a	14	SW846 8260B
Benzene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.7	ug/L	97	5.9	SW846 8260B
Bromodichloromethane	ND	10	11	ug/L	106		SW846 8260B
	ND	10	11	ug/L	110	3.9	SW846 8260B
Bromoform	ND	10	12	ug/L	123		SW846 8260B
	ND	10	13	ug/L	130	5.3	SW846 8260B
Bromomethane	ND	10	13	ug/L	133		SW846 8260B
	ND	10	15	ug/L	145	8.5	SW846 8260B
2-Butanone	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	10	ug/L	103	8.1	SW846 8260B
Carbon disulfide	ND	10	10	ug/L	103		SW846 8260B
	ND	10	11	ug/L	110	6.1	SW846 8260B
Carbon tetrachloride	ND	10	10	ug/L	104		SW846 8260B
	ND	10	11	ug/L	108	4.3	SW846 8260B
Chlorobenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.1	ug/L	91	5.4	SW846 8260B
Chloroethane	ND	10	12	ug/L	120		SW846 8260B
	ND	10	13	ug/L	128	7.1	SW846 8260B
Chloroform	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	10	ug/L	102	5.2	SW846 8260B
Chloromethane	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.5	ug/L	95	7.5	SW846 8260B
Cyclohexane	ND	10	7.2	ug/L	72		SW846 8260B
	ND	10	7.8	ug/L	78	8.4	SW846 8260B
Dibromochloromethane	ND	10	11	ug/L	106		SW846 8260B
	ND	10	11	ug/L	113	6.6	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	10	11	ug/L	111		SW846 8260B
	ND	10	11	ug/L	111	0.22	SW846 8260B
1,2-Dibromoethane	ND	10	9.6	ug/L	96		SW846 8260B
	ND	10	10	ug/L	100	3.9	SW846 8260B
1,2-Dichlorobenzene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.6	ug/L	96	2.2	SW846 8260B
1,3-Dichlorobenzene	ND	10	8.2	ug/L	82		SW846 8260B
	ND	10	8.4	ug/L	84	3.0	SW846 8260B
1,4-Dichlorobenzene	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	8.7	ug/L	87	3.2	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAVG1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090253-002 LMAVG1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Dichlorodifluoromethane	ND	10	11	ug/L	107		SW846 8260B
	ND	10	11	ug/L	112	4.9	SW846 8260B
1,1-Dichloroethane	ND	10	9.7	ug/L	97		SW846 8260B
	ND	10	10	ug/L	103	6.2	SW846 8260B
1,2-Dichloroethane	ND	10	10	ug/L	100		SW846 8260B
	ND	10	10	ug/L	103	3.3	SW846 8260B
1,1-Dichloroethene	ND	10	9.8	ug/L	98		SW846 8260B
	ND	10	10	ug/L	104	6.4	SW846 8260B
cis-1,2-Dichloroethene	ND	10	8.8	ug/L	88		SW846 8260B
	ND	10	9.3	ug/L	93	6.5	SW846 8260B
trans-1,2-Dichloroethene	ND	10	9.1	ug/L	91		SW846 8260B
	ND	10	9.6	ug/L	96	5.7	SW846 8260B
1,2-Dichloropropane	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.9	ug/L	99	7.8	SW846 8260B
cis-1,3-Dichloropropene	ND	10	7.8	ug/L	78 a		SW846 8260B
	ND	10	8.5	ug/L	85	8.4	SW846 8260B
trans-1,3-Dichloropropene	ND	10	7.8	ug/L	78		SW846 8260B
	ND	10	8.6	ug/L	86	9.0	SW846 8260B
Ethylbenzene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.3	ug/L	93	5.8	SW846 8260B
2-Hexanone	ND	10	8.4	ug/L	84		SW846 8260B
	ND	10	9.2	ug/L	92	8.8	SW846 8260B
Isopropylbenzene	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.1	ug/L	91	5.8	SW846 8260B
Methyl acetate	ND	10	6.9	ug/L	69 a		SW846 8260B
	ND	10	7.1	ug/L	71	2.8	SW846 8260B
Methylene chloride	ND	10	9.9	ug/L	99		SW846 8260B
	ND	10	11	ug/L	107	8.4	SW846 8260B
Methylcyclohexane	ND	10	6.0	ug/L	60 a		SW846 8260B
	ND	10	6.4	ug/L	64 a	7.0	SW846 8260B
4-Methyl-2-pentanone	ND	10	8.6	ug/L	86		SW846 8260B
	ND	10	9.4	ug/L	94	8.0	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.4	ug/L	94	5.5	SW846 8260B
Styrene	ND	10	9.2	ug/L	92		SW846 8260B
	ND	10	9.6	ug/L	96	4.6	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10	7.4	ug/L	74 a		SW846 8260B
	ND	10	7.8	ug/L	78 a	5.2	SW846 8260B
Tetrachloroethene	ND	10	8.5	ug/L	85		SW846 8260B
	ND	10	8.8	ug/L	88	3.4	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAVG1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090253-002 LMAVG1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Toluene	ND	10	8.7	ug/L	87		SW846 8260B
	ND	10	9.1	ug/L	91	4.4	SW846 8260B
1,2,4-Trichloro- benzene	ND	10	4.9	ug/L	49 a		SW846 8260B
	ND	10	5.2	ug/L	52 a	6.2	SW846 8260B
1,1,1-Trichloroethane	ND	10	10	ug/L	101		SW846 8260B
	ND	10	11	ug/L	109	7.4	SW846 8260B
1,1,2-Trichloroethane	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	9.6	ug/L	96	1.7	SW846 8260B
Trichloroethene	ND	10	8.9	ug/L	89		SW846 8260B
	ND	10	9.6	ug/L	96	7.4	SW846 8260B
Trichlorofluoromethane	ND	10	14	ug/L	136 a		SW846 8260B
	ND	10	15	ug/L	146 a	7.4	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	10	14	ug/L	144 a		SW846 8260B
	ND	10	15	ug/L	153 a	6.3	SW846 8260B
Vinyl chloride	ND	10	10	ug/L	101		SW846 8260B
	ND	10	11	ug/L	106	4.8	SW846 8260B
Xylenes (total)	ND	30	27	ug/L	90		SW846 8260B
	ND	30	28	ug/L	95	5.8	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	88	(61 - 128)
Toluene-d8	85	(76 - 110)
	85	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	102	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAVG1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090253-002 LMAVG1AD-MSD
 Date Sampled...: 10/06/09 16:45 Date Received...: 10/09/09
 Prep Date.....: 10/17/09 Analysis Date...: 10/17/09
 Prep Batch #...: 9292286
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Acetone	114	(45 - 128)			SW846 8260B
	135 a	(45 - 128)	14	(0-30)	SW846 8260B
Benzene	91	(78 - 118)			SW846 8260B
	97	(78 - 118)	5.9	(0-20)	SW846 8260B
Bromodichloromethane	106	(80 - 146)			SW846 8260B
	110	(80 - 146)	3.9	(0-30)	SW846 8260B
Bromoform	123	(58 - 176)			SW846 8260B
	130	(58 - 176)	5.3	(0-30)	SW846 8260B
Bromomethane	133	(55 - 145)			SW846 8260B
	145	(55 - 145)	8.5	(0-30)	SW846 8260B
2-Butanone	95	(71 - 123)			SW846 8260B
	103	(71 - 123)	8.1	(0-30)	SW846 8260B
Carbon disulfide	103	(69 - 138)			SW846 8260B
	110	(69 - 138)	6.1	(0-41)	SW846 8260B
Carbon tetrachloride	104	(63 - 176)			SW846 8260B
	108	(63 - 176)	4.3	(0-30)	SW846 8260B
Chlorobenzene	86	(76 - 117)			SW846 8260B
	91	(76 - 117)	5.4	(0-20)	SW846 8260B
Chloroethane	120	(59 - 142)			SW846 8260B
	128	(59 - 142)	7.1	(0-30)	SW846 8260B
Chloroform	97	(83 - 141)			SW846 8260B
	102	(83 - 141)	5.2	(0-30)	SW846 8260B
Chloromethane	88	(40 - 137)			SW846 8260B
	95	(40 - 137)	7.5	(0-39)	SW846 8260B
Cyclohexane	72	(70 - 130)			SW846 8260B
	78	(70 - 130)	8.4	(0-30)	SW846 8260B
Dibromochloromethane	106	(71 - 158)			SW846 8260B
	113	(71 - 158)	6.6	(0-30)	SW846 8260B
1,2-Dibromo-3-chloro- propane	111	(70 - 130)			SW846 8260B
	111	(70 - 130)	0.22	(0-30)	SW846 8260B
1,2-Dibromoethane	96	(70 - 130)			SW846 8260B
	100	(70 - 130)	3.9	(0-30)	SW846 8260B
1,2-Dichlorobenzene	94	(70 - 130)			SW846 8260B
	96	(70 - 130)	2.2	(0-30)	SW846 8260B
1,3-Dichlorobenzene	82	(70 - 130)			SW846 8260B
	84	(70 - 130)	3.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	84	(70 - 130)			SW846 8260B
	87	(70 - 130)	3.2	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAVG1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090253-002 LMAVG1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dichlorodifluoromethane	107	(70 - 130)			SW846 8260B
	112	(70 - 130)	4.9	(0-30)	SW846 8260B
1,1-Dichloroethane	97	(88 - 127)			SW846 8260B
	103	(88 - 127)	6.2	(0-30)	SW846 8260B
1,2-Dichloroethane	100	(71 - 160)			SW846 8260B
	103	(71 - 160)	3.3	(0-30)	SW846 8260B
1,1-Dichloroethene	98	(62 - 130)			SW846 8260B
	104	(62 - 130)	6.4	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	88	(87 - 114)			SW846 8260B
	93	(87 - 114)	6.5	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	91	(85 - 116)			SW846 8260B
	96	(85 - 116)	5.7	(0-30)	SW846 8260B
1,2-Dichloropropane	92	(87 - 114)			SW846 8260B
	99	(87 - 114)	7.8	(0-30)	SW846 8260B
cis-1,3-Dichloropropene	78 a	(82 - 130)			SW846 8260B
	85	(82 - 130)	8.4	(0-30)	SW846 8260B
trans-1,3-Dichloropropene	78	(73 - 147)			SW846 8260B
	86	(73 - 147)	9.0	(0-30)	SW846 8260B
Ethylbenzene	87	(86 - 132)			SW846 8260B
	93	(86 - 132)	5.8	(0-30)	SW846 8260B
2-Hexanone	84	(81 - 128)			SW846 8260B
	92	(81 - 128)	8.8	(0-30)	SW846 8260B
Isopropylbenzene	86	(70 - 130)			SW846 8260B
	91	(70 - 130)	5.8	(0-30)	SW846 8260B
Methyl acetate	69 a	(70 - 130)			SW846 8260B
	71	(70 - 130)	2.8	(0-30)	SW846 8260B
Methylene chloride	99	(82 - 115)			SW846 8260B
	107	(82 - 115)	8.4	(0-30)	SW846 8260B
Methylcyclohexane	60 a	(70 - 130)			SW846 8260B
	64 a	(70 - 130)	7.0	(0-30)	SW846 8260B
4-Methyl-2-pentanone	86	(82 - 135)			SW846 8260B
	94	(82 - 135)	8.0	(0-30)	SW846 8260B
Methyl tert-butyl ether (MTBE)	89	(70 - 130)			SW846 8260B
	94	(70 - 130)	5.5	(0-30)	SW846 8260B
Styrene	92	(83 - 120)			SW846 8260B
	96	(83 - 120)	4.6	(0-30)	SW846 8260B
1,1,2,2-Tetrachloroethane	74 a	(88 - 116)			SW846 8260B
	78 a	(88 - 116)	5.2	(0-30)	SW846 8260B
Tetrachloroethene	85	(85 - 121)			SW846 8260B
	88	(85 - 121)	3.4	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: 9J07288 Work Order #...: LMAVG1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090253-002 LMAVG1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Toluene	87	(70 - 119)			SW846 8260B
	91	(70 - 119)	4.4	(0-20)	SW846 8260B
1,2,4-Trichloro- benzene	49 a	(70 - 130)			SW846 8260B
	52 a	(70 - 130)	6.2	(0-30)	SW846 8260B
1,1,1-Trichloroethane	101	(71 - 162)			SW846 8260B
	109	(71 - 162)	7.4	(0-30)	SW846 8260B
1,1,2-Trichloroethane	94	(86 - 129)			SW846 8260B
	96	(86 - 129)	1.7	(0-30)	SW846 8260B
Trichloroethene	89	(62 - 130)			SW846 8260B
	96	(62 - 130)	7.4	(0-20)	SW846 8260B
Trichlorofluoromethane	136 a	(70 - 130)			SW846 8260B
	146 a	(70 - 130)	7.4	(0-30)	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	144 a	(70 - 130)			SW846 8260B
	153 a	(70 - 130)	6.3	(0-30)	SW846 8260B
Vinyl chloride	101	(88 - 126)			SW846 8260B
	106	(88 - 126)	4.8	(0-30)	SW846 8260B
Xylenes (total)	90	(89 - 121)			SW846 8260B
	95	(89 - 121)	5.8	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	88	(61 - 128)
Toluene-d8	85	(76 - 110)
	85	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	102	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

GCMS SEMIVOLATILE DATA

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-290

GC/MS Semivolatiles

Lot-Sample #...: A9J070288-016 Work Order #...: LL5121AC Matrix.....: WG
 Date Sampled...: 10/06/09 16:00 Date Received..: 10/07/09
 Prep Date.....: 10/08/09 Analysis Date..: 10/14/09
 Prep Batch #...: 9281060
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.10
Acenaphthylene	ND	5.0	ug/L	0.10
Acetophenone	ND	5.0	ug/L	0.34
Anthracene	ND	5.0	ug/L	0.10
Atrazine	ND	5.0	ug/L	0.34
Benzo(a)anthracene	ND	1.0	ug/L	0.10
Benzo(a)pyrene	ND	2.0	ug/L	0.10
Benzo(b)fluoranthene	ND	2.0	ug/L	0.10
Benzo(ghi)perylene	ND	5.0	ug/L	0.10
Benzo(k)fluoranthene	ND	5.0	ug/L	0.10
Benzaldehyde	ND	10	ug/L	0.39
1,1'-Biphenyl	ND	10	ug/L	0.80
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.32
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.10
bis(2-Ethylhexyl) phthalate	1.3 J	5.0	ug/L	0.80
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.80
Butyl benzyl phthalate	ND	5.0	ug/L	0.80
Caprolactam	ND	10	ug/L	0.80
Carbazole	ND	10	ug/L	0.28
4-Chloroaniline	ND	20	ug/L	0.80
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.80
2-Chloronaphthalene	ND	5.0	ug/L	0.10
2-Chlorophenol	ND	5.0	ug/L	0.29
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.30
Chrysene	ND	5.0	ug/L	0.10
Dibenz(a,h)anthracene	ND	2.0	ug/L	0.10
Dibenzofuran	ND	5.0	ug/L	0.10
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.37
2,4-Dichlorophenol	ND	10	ug/L	0.80
Diethyl phthalate	ND	5.0	ug/L	0.60
2,4-Dimethylphenol	ND	5.0	ug/L	0.80
Dimethyl phthalate	ND	5.0	ug/L	0.29
Di-n-butyl phthalate	ND	5.0	ug/L	0.67

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-290

GC/MS Semivolatiles

Lot-Sample #...: A9J070288-016 Work Order #...: LL5121AC Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	2.4
2,4-Dinitrophenol	ND	20	ug/L	2.4
2,4-Dinitrotoluene	ND	5.0	ug/L	0.27
2,6-Dinitrotoluene	ND	5.0	ug/L	0.80
Di-n-octyl phthalate	ND	5.0	ug/L	0.80
Fluoranthene	ND	5.0	ug/L	0.10
Fluorene	ND	5.0	ug/L	0.10
Hexachlorobenzene	ND	5.0	ug/L	0.10
Hexachlorobutadiene	ND	5.0	ug/L	0.27
Hexachlorocyclopenta- diene	ND	5.0	ug/L	0.80
Hexachloroethane	ND	5.0	ug/L	0.80
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	0.10
Isophorone	ND	5.0	ug/L	0.27
2-Methylnaphthalene	ND	5.0	ug/L	0.10
2-Methylphenol	ND	5.0	ug/L	0.80
4-Methylphenol	ND	5.0	ug/L	0.80
Naphthalene	ND	5.0	ug/L	0.10
2-Nitroaniline	ND	20	ug/L	0.80
3-Nitroaniline	ND	20	ug/L	0.28
4-Nitroaniline	ND	20	ug/L	0.80
Nitrobenzene	ND	4.0	ug/L	0.040
2-Nitrophenol	ND	5.0	ug/L	0.28
4-Nitrophenol	ND	20	ug/L	2.4
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.80
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.31
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.40
Pentachlorophenol	ND	20	ug/L	2.4
Phenanthrene	ND	5.0	ug/L	0.10
Phenol	ND	5.0	ug/L	0.60
Pyrene	ND	5.0	ug/L	0.10
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.30
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.80

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-290

GC/MS Semivolatiles

Lot-Sample #...: A9J070288-016 Work Order #...: LL5121AC Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	71	(27 - 111)
2-Fluorobiphenyl	59	(28 - 110)
Terphenyl-d14	77	(37 - 119)
Phenol-d5	57	(10 - 110)
2-Fluorophenol	61	(10 - 110)
2,4,6-Tribromophenol	62	(22 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-291

GC/MS Semivolatiles

Lot-Sample #...: A9J070288-017 Work Order #...: LL5131AC Matrix.....: WG
 Date Sampled...: 10/06/09 16:05 Date Received...: 10/07/09
 Prep Date.....: 10/08/09 Analysis Date...: 10/14/09
 Prep Batch #...: 9281060
 Dilution Factor: 1 Initial Wgt/Vol: 1010 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.10
Acenaphthylene	ND	5.0	ug/L	0.10
Acetophenone	ND	5.0	ug/L	0.34
Anthracene	ND	5.0	ug/L	0.10
Atrazine	ND	5.0	ug/L	0.34
Benzo(a)anthracene	ND	1.0	ug/L	0.10
Benzo(a)pyrene	ND	2.0	ug/L	0.10
Benzo(b)fluoranthene	ND	2.0	ug/L	0.10
Benzo(ghi)perylene	ND	5.0	ug/L	0.10
Benzo(k)fluoranthene	ND	5.0	ug/L	0.10
Benzaldehyde	ND	10	ug/L	0.39
1,1'-Biphenyl	ND	10	ug/L	0.80
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.32
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.10
bis(2-Ethylhexyl) phthalate	1.6 J	5.0	ug/L	0.80
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.80
Butyl benzyl phthalate	ND	5.0	ug/L	0.80
Caprolactam	ND	10	ug/L	0.80
Carbazole	ND	10	ug/L	0.28
4-Chloroaniline	ND	20	ug/L	0.80
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.80
2-Chloronaphthalene	ND	5.0	ug/L	0.10
2-Chlorophenol	ND	5.0	ug/L	0.29
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.30
Chrysene	ND	5.0	ug/L	0.10
Dibenz(a,h)anthracene	ND	2.0	ug/L	0.10
Dibenzofuran	ND	5.0	ug/L	0.10
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.37
2,4-Dichlorophenol	ND	10	ug/L	0.80
Diethyl phthalate	ND	5.0	ug/L	0.60
2,4-Dimethylphenol	ND	5.0	ug/L	0.80
Dimethyl phthalate	ND	5.0	ug/L	0.29
Di-n-butyl phthalate	ND	5.0	ug/L	0.67

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-291

GC/MS Semivolatiles

Lot-Sample #...: A9J070288-017 Work Order #...: LL5131AC Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	2.4
2,4-Dinitrophenol	ND	20	ug/L	2.4
2,4-Dinitrotoluene	ND	5.0	ug/L	0.27
2,6-Dinitrotoluene	ND	5.0	ug/L	0.80
Di-n-octyl phthalate	ND	5.0	ug/L	0.80
Fluoranthene	ND	5.0	ug/L	0.10
Fluorene	ND	5.0	ug/L	0.10
Hexachlorobenzene	ND	5.0	ug/L	0.10
Hexachlorobutadiene	ND	5.0	ug/L	0.27
Hexachlorocyclopenta- diene	ND	5.0	ug/L	0.80
Hexachloroethane	ND	5.0	ug/L	0.80
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	0.10
Isophorone	ND	5.0	ug/L	0.27
2-Methylnaphthalene	ND	5.0	ug/L	0.10
2-Methylphenol	ND	5.0	ug/L	0.80
4-Methylphenol	ND	5.0	ug/L	0.80
Naphthalene	ND	5.0	ug/L	0.10
2-Nitroaniline	ND	20	ug/L	0.80
3-Nitroaniline	ND	20	ug/L	0.28
4-Nitroaniline	ND	20	ug/L	0.80
Nitrobenzene	ND	4.0	ug/L	0.040
2-Nitrophenol	ND	5.0	ug/L	0.28
4-Nitrophenol	ND	20	ug/L	2.4
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.80
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.31
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.40
Pentachlorophenol	ND	20	ug/L	2.4
Phenanthrene	ND	5.0	ug/L	0.10
Phenol	ND	5.0	ug/L	0.60
Pyrene	ND	5.0	ug/L	0.10
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.30
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.80

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100609-DR-291

GC/MS Semivolatiles

Lot-Sample #...: A9J070288-017 Work Order #...: LL5131AC Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	66	(27 - 111)
2-Fluorobiphenyl	54	(28 - 110)
Terphenyl-d14	83	(37 - 119)
Phenol-d5	56	(10 - 110)
2-Fluorophenol	58	(10 - 110)
2,4,6-Tribromophenol	60	(22 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-292

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-002 Work Order #...: LMAM31AC Matrix.....: WG
 Date Sampled...: 10/07/09 08:35 Date Received...: 10/09/09
 Prep Date.....: 10/10/09 Analysis Date...: 10/14/09
 Prep Batch #...: 9283014
 Dilution Factor: 4 Initial Wgt/Vol: 1010 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug/L	0.40
Acenaphthylene	ND	20	ug/L	0.40
Acetophenone	ND	20	ug/L	1.4
Anthracene	0.89 J	20	ug/L	0.40
Atrazine	ND	20	ug/L	1.4
Benzo(a)anthracene	3.7 J	4.0	ug/L	0.40
Benzo(a)pyrene	3.8 J	8.0	ug/L	0.40
Benzo(b)fluoranthene	3.8 J	8.0	ug/L	0.40
Benzo(ghi)perylene	3.2 J	20	ug/L	0.40
Benzo(k)fluoranthene	2.8 J	20	ug/L	0.40
Benzaldehyde	ND	40	ug/L	1.6
1,1'-Biphenyl	ND	40	ug/L	3.2
bis(2-Chloroethoxy) methane	ND	20	ug/L	1.3
bis(2-Chloroethyl)- ether	ND	16	ug/L	0.40
bis(2-Ethylhexyl) phthalate	ND	20	ug/L	3.2
4-Bromophenyl phenyl ether	ND	20	ug/L	3.2
Butyl benzyl phthalate	ND	20	ug/L	3.2
Caprolactam	ND	40	ug/L	3.2
Carbazole	1.8 J	40	ug/L	1.1
4-Chloroaniline	ND	80	ug/L	3.2
4-Chloro-3-methylphenol	ND	20	ug/L	3.2
2-Chloronaphthalene	ND	20	ug/L	0.40
2-Chlorophenol	ND	20	ug/L	1.2
4-Chlorophenyl phenyl ether	ND	20	ug/L	1.2
Chrysene	4.1 J	20	ug/L	0.40
Dibenz(a,h)anthracene	ND	8.0	ug/L	0.40
Dibenzofuran	ND	20	ug/L	0.40
3,3'-Dichlorobenzidine	ND	16	ug/L	1.5
2,4-Dichlorophenol	ND	40	ug/L	3.2
Diethyl phthalate	ND	20	ug/L	2.4
2,4-Dimethylphenol	ND	20	ug/L	3.2
Dimethyl phthalate	ND	20	ug/L	1.2
Di-n-butyl phthalate	ND	20	ug/L	2.7

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-292

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-002 Work Order #...: LMAM31AC Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	80	ug/L	9.6
2,4-Dinitrophenol	ND	80	ug/L	9.6
2,4-Dinitrotoluene	ND	20	ug/L	1.1
2,6-Dinitrotoluene	ND	20	ug/L	3.2
Di-n-octyl phthalate	ND	20	ug/L	3.2
Fluoranthene	10 J	20	ug/L	0.40
Fluorene	ND	20	ug/L	0.40
Hexachlorobenzene	ND	20	ug/L	0.40
Hexachlorobutadiene	ND	20	ug/L	1.1
Hexachlorocyclopenta- diene	ND	20	ug/L	3.2
Hexachloroethane	ND	20	ug/L	3.2
Indeno(1,2,3-cd)pyrene	2.5 J	8.0	ug/L	0.40
Isophorone	ND	20	ug/L	1.1
2-Methylnaphthalene	ND	20	ug/L	0.40
2-Methylphenol	ND	20	ug/L	3.2
4-Methylphenol	ND	20	ug/L	3.2
Naphthalene	ND	20	ug/L	0.40
2-Nitroaniline	ND	80	ug/L	3.2
3-Nitroaniline	ND	80	ug/L	1.1
4-Nitroaniline	ND	80	ug/L	3.2
Nitrobenzene	ND	16	ug/L	0.16
2-Nitrophenol	ND	20	ug/L	1.1
4-Nitrophenol	ND	80	ug/L	9.6
N-Nitrosodi-n-propyl- amine	ND	20	ug/L	3.2
N-Nitrosodiphenylamine	ND	20	ug/L	1.2
2,2'-oxybis (1-Chloropropane)	ND	20	ug/L	1.6
Pentachlorophenol	ND	80	ug/L	9.6
Phenanthrene	6.3 J	20	ug/L	0.40
Phenol	ND	20	ug/L	2.4
Pyrene	7.2 J	20	ug/L	0.40
2,4,5-Trichloro- phenol	ND	20	ug/L	1.2
2,4,6-Trichloro- phenol	ND	16	ug/L	3.2

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-292

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-002 Work Order #...: LMAM31AC Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	73 DIL	(27 - 111)
2-Fluorobiphenyl	68 DIL	(28 - 110)
Terphenyl-d14	84 DIL	(37 - 119)
Phenol-d5	61 DIL	(10 - 110)
2-Fluorophenol	64 DIL	(10 - 110)
2,4,6-Tribromophenol	95 DIL	(22 - 120)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-293

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-003 Work Order #...: LMAM41AC Matrix.....: WG
 Date Sampled...: 10/07/09 09:10 Date Received...: 10/09/09
 Prep Date.....: 10/10/09 Analysis Date...: 10/14/09
 Prep Batch #...: 9283014
 Dilution Factor: 1 Initial Wgt/Vol: 990 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	0.61 J	5.0	ug/L	0.10
Acenaphthylene	ND	5.0	ug/L	0.10
Acetophenone	ND	5.0	ug/L	0.34
Anthracene	ND	5.0	ug/L	0.10
Atrazine	ND	5.0	ug/L	0.34
Benzo(a)anthracene	ND	1.0	ug/L	0.10
Benzo(a)pyrene	ND	2.0	ug/L	0.10
Benzo(b)fluoranthene	ND	2.0	ug/L	0.10
Benzo(ghi)perylene	ND	5.0	ug/L	0.10
Benzo(k)fluoranthene	ND	5.0	ug/L	0.10
Benzaldehyde	ND	10	ug/L	0.39
1,1'-Biphenyl	ND	10	ug/L	0.80
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.32
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.10
bis(2-Ethylhexyl) phthalate	1.9 J,B	5.0	ug/L	0.80
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.80
Butyl benzyl phthalate	ND	5.0	ug/L	0.80
Caprolactam	ND	10	ug/L	0.80
Carbazole	ND	10	ug/L	0.28
4-Chloroaniline	ND	20	ug/L	0.80
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.80
2-Chloronaphthalene	ND	5.0	ug/L	0.10
2-Chlorophenol	ND	5.0	ug/L	0.29
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.30
Chrysene	ND	5.0	ug/L	0.10
Dibenz(a,h)anthracene	ND	2.0	ug/L	0.10
Dibenzofuran	0.43 J	5.0	ug/L	0.10
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.37
2,4-Dichlorophenol	ND	10	ug/L	0.80
Diethyl phthalate	ND	5.0	ug/L	0.60
2,4-Dimethylphenol	ND	5.0	ug/L	0.80
Dimethyl phthalate	ND	5.0	ug/L	0.29
Di-n-butyl phthalate	ND	5.0	ug/L	0.67

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-293

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-003 Work Order #...: LMAM41AC Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	2.4
2,4-Dinitrophenol	ND	20	ug/L	2.4
2,4-Dinitrotoluene	ND	5.0	ug/L	0.27
2,6-Dinitrotoluene	ND	5.0	ug/L	0.80
Di-n-octyl phthalate	ND	5.0	ug/L	0.80
Fluoranthene	ND	5.0	ug/L	0.10
Fluorene	0.49 J	5.0	ug/L	0.10
Hexachlorobenzene	ND	5.0	ug/L	0.10
Hexachlorobutadiene	ND	5.0	ug/L	0.27
Hexachlorocyclopenta- diene	ND	5.0	ug/L	0.80
Hexachloroethane	ND	5.0	ug/L	0.80
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	0.10
Isophorone	ND	5.0	ug/L	0.27
2-Methylnaphthalene	ND	5.0	ug/L	0.10
2-Methylphenol	ND	5.0	ug/L	0.80
4-Methylphenol	ND	5.0	ug/L	0.80
Naphthalene	0.39 J	5.0	ug/L	0.10
2-Nitroaniline	ND	20	ug/L	0.80
3-Nitroaniline	ND	20	ug/L	0.28
4-Nitroaniline	ND	20	ug/L	0.80
Nitrobenzene	ND	4.0	ug/L	0.040
2-Nitrophenol	ND	5.0	ug/L	0.28
4-Nitrophenol	ND	20	ug/L	2.4
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.80
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.31
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.40
Pentachlorophenol	ND	20	ug/L	2.4
Phenanthrene	ND	5.0	ug/L	0.10
Phenol	ND	5.0	ug/L	0.60
Pyrene	ND	5.0	ug/L	0.10
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.30
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.80

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-293

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-003 Work Order #...: LMAM41AC Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	72	(27 - 111)
2-Fluorobiphenyl	81	(28 - 110)
Terphenyl-d14	85	(37 - 119)
Phenol-d5	62	(10 - 110)
2-Fluorophenol	63	(10 - 110)
2,4,6-Tribromophenol	100	(22 - 120)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-294

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-004 Work Order #...: LMAM51AC Matrix.....: WG
 Date Sampled...: 10/07/09 10:35 Date Received...: 10/09/09
 Prep Date.....: 10/10/09 Analysis Date...: 10/14/09
 Prep Batch #...: 9283014
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.10
Acenaphthylene	ND	5.0	ug/L	0.10
Acetophenone	ND	5.0	ug/L	0.34
Anthracene	ND	5.0	ug/L	0.10
Atrazine	ND	5.0	ug/L	0.34
Benzo(a)anthracene	ND	1.0	ug/L	0.10
Benzo(a)pyrene	ND	2.0	ug/L	0.10
Benzo(b)fluoranthene	ND	2.0	ug/L	0.10
Benzo(ghi)perylene	ND	5.0	ug/L	0.10
Benzo(k)fluoranthene	ND	5.0	ug/L	0.10
Benzaldehyde	ND	10	ug/L	0.39
1,1'-Biphenyl	ND	10	ug/L	0.80
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.32
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.10
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	0.80
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.80
Butyl benzyl phthalate	ND	5.0	ug/L	0.80
Caprolactam	ND	10	ug/L	0.80
Carbazole	ND	10	ug/L	0.28
4-Chloroaniline	ND	20	ug/L	0.80
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.80
2-Chloronaphthalene	ND	5.0	ug/L	0.10
2-Chlorophenol	ND	5.0	ug/L	0.29
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.30
Chrysene	ND	5.0	ug/L	0.10
Dibenz(a,h)anthracene	ND	2.0	ug/L	0.10
Dibenzofuran	ND	5.0	ug/L	0.10
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.37
2,4-Dichlorophenol	ND	10	ug/L	0.80
Diethyl phthalate	ND	5.0	ug/L	0.60
2,4-Dimethylphenol	ND	5.0	ug/L	0.80
Dimethyl phthalate	ND	5.0	ug/L	0.29
Di-n-butyl phthalate	ND	5.0	ug/L	0.67

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-294

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-004 Work Order #...: LMAM51AC Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	2.4
2,4-Dinitrophenol	ND	20	ug/L	2.4
2,4-Dinitrotoluene	ND	5.0	ug/L	0.27
2,6-Dinitrotoluene	ND	5.0	ug/L	0.80
Di-n-octyl phthalate	ND	5.0	ug/L	0.80
Fluoranthene	ND	5.0	ug/L	0.10
Fluorene	ND	5.0	ug/L	0.10
Hexachlorobenzene	ND	5.0	ug/L	0.10
Hexachlorobutadiene	ND	5.0	ug/L	0.27
Hexachlorocyclopenta- diene	ND	5.0	ug/L	0.80
Hexachloroethane	ND	5.0	ug/L	0.80
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	0.10
Isophorone	ND	5.0	ug/L	0.27
2-Methylnaphthalene	ND	5.0	ug/L	0.10
2-Methylphenol	ND	5.0	ug/L	0.80
4-Methylphenol	ND	5.0	ug/L	0.80
Naphthalene	ND	5.0	ug/L	0.10
2-Nitroaniline	ND	20	ug/L	0.80
3-Nitroaniline	ND	20	ug/L	0.28
4-Nitroaniline	ND	20	ug/L	0.80
Nitrobenzene	ND	4.0	ug/L	0.040
2-Nitrophenol	ND	5.0	ug/L	0.28
4-Nitrophenol	ND	20	ug/L	2.4
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.80
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.31
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.40
Pentachlorophenol	ND	20	ug/L	2.4
Phenanthrene	ND	5.0	ug/L	0.10
Phenol	ND	5.0	ug/L	0.60
Pyrene	ND	5.0	ug/L	0.10
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.30
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.80

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-17360-100709-DR-294

GC/MS Semivolatiles

Lot-Sample #...: A9J090242-004 Work Order #...: LMAM51AC Matrix.....: WG

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	61	(27 - 111)
2-Fluorobiphenyl	69	(28 - 110)
Terphenyl-d14	82	(37 - 119)
Phenol-d5	52	(10 - 110)
2-Fluorophenol	56	(10 - 110)
2,4,6-Tribromophenol	91	(22 - 120)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288
 MB Lot-Sample #: A9J080000-060
 Analysis Date...: 10/15/09
 Dilution Factor: 1

Work Order #...: LL6N11AA
 Prep Date.....: 10/08/09
 Prep Batch #...: 9281060
 Initial Wgt/Vol: 1000 mL

Matrix.....: WATER
 Final Wgt/Vol...: 2 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	5.0	ug/L	SW846 8270C
Acenaphthylene	ND	5.0	ug/L	SW846 8270C
Acetophenone	ND	5.0	ug/L	SW846 8270C
Anthracene	ND	5.0	ug/L	SW846 8270C
Atrazine	ND	5.0	ug/L	SW846 8270C
Benzo(a)anthracene	ND	1.0	ug/L	SW846 8270C
Benzo(a)pyrene	ND	2.0	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	2.0	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	5.0	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	5.0	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	SW846 8270C
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	5.0	ug/L	SW846 8270C
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	20	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	5.0	ug/L	SW846 8270C
2-Chloronaphthalene	ND	5.0	ug/L	SW846 8270C
2-Chlorophenol	ND	5.0	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Chrysene	ND	5.0	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	2.0	ug/L	SW846 8270C
Dibenzofuran	ND	5.0	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	4.0	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	5.0	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	5.0	ug/L	SW846 8270C
Dimethyl phthalate	ND	5.0	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	5.0	ug/L	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	20	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288

Work Order #...: LL6N11AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2,4-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	5.0	ug/L	SW846 8270C
Fluoranthene	ND	5.0	ug/L	SW846 8270C
Fluorene	ND	5.0	ug/L	SW846 8270C
Hexachlorobenzene	ND	5.0	ug/L	SW846 8270C
Hexachlorobutadiene	ND	5.0	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	5.0	ug/L	SW846 8270C
Hexachloroethane	ND	5.0	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	SW846 8270C
Isophorone	ND	5.0	ug/L	SW846 8270C
2-Methylnaphthalene	ND	5.0	ug/L	SW846 8270C
2-Methylphenol	ND	5.0	ug/L	SW846 8270C
4-Methylphenol	ND	5.0	ug/L	SW846 8270C
Naphthalene	ND	5.0	ug/L	SW846 8270C
2-Nitroaniline	ND	20	ug/L	SW846 8270C
3-Nitroaniline	ND	20	ug/L	SW846 8270C
4-Nitroaniline	ND	20	ug/L	SW846 8270C
Nitrobenzene	ND	4.0	ug/L	SW846 8270C
2-Nitrophenol	ND	5.0	ug/L	SW846 8270C
4-Nitrophenol	ND	20	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	5.0	ug/L	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	SW846 8270C
Pentachlorophenol	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	5.0	ug/L	SW846 8270C
Phenol	ND	5.0	ug/L	SW846 8270C
Pyrene	ND	5.0	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	5.0	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	4.0	ug/L	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Nitrobenzene-d5	86	(27 - 111)
2-Fluorobiphenyl	65	(28 - 110)
Terphenyl-d14	86	(37 - 119)
Phenol-d5	71	(10 - 110)
2-Fluorophenol	72	(10 - 110)
2,4,6-Tribromophenol	68	(22 - 120)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288

Work Order #...: LL6N11AA

Matrix.....: WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288
 MB Lot-Sample #: A9J100000-014
 Analysis Date...: 10/15/09
 Dilution Factor: 1

Work Order #...: LMC671AA
 Prep Date.....: 10/10/09
 Prep Batch #...: 9283014
 Initial Wgt/Vol: 1000 mL

Matrix.....: WATER
 Final Wgt/Vol...: 2 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	5.0	ug/L	SW846 8270C
Acenaphthylene	ND	5.0	ug/L	SW846 8270C
Acetophenone	ND	5.0	ug/L	SW846 8270C
Anthracene	ND	5.0	ug/L	SW846 8270C
Atrazine	ND	5.0	ug/L	SW846 8270C
Benzo(a)anthracene	ND	1.0	ug/L	SW846 8270C
Benzo(a)pyrene	ND	2.0	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	2.0	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	5.0	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	5.0	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	SW846 8270C
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	1.5 J	5.0	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	5.0	ug/L	SW846 8270C
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	20	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	5.0	ug/L	SW846 8270C
2-Chloronaphthalene	ND	5.0	ug/L	SW846 8270C
2-Chlorophenol	ND	5.0	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Chrysene	ND	5.0	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	2.0	ug/L	SW846 8270C
Dibenzofuran	ND	5.0	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	4.0	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	5.0	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	5.0	ug/L	SW846 8270C
Dimethyl phthalate	ND	5.0	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	5.0	ug/L	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	20	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288

Work Order #...: LMC671AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	5.0	ug/L	SW846 8270C
Fluoranthene	ND	5.0	ug/L	SW846 8270C
Fluorene	ND	5.0	ug/L	SW846 8270C
Hexachlorobenzene	ND	5.0	ug/L	SW846 8270C
Hexachlorobutadiene	ND	5.0	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	5.0	ug/L	SW846 8270C
Hexachloroethane	ND	5.0	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	2.0	ug/L	SW846 8270C
Isophorone	ND	5.0	ug/L	SW846 8270C
2-Methylnaphthalene	ND	5.0	ug/L	SW846 8270C
2-Methylphenol	ND	5.0	ug/L	SW846 8270C
4-Methylphenol	ND	5.0	ug/L	SW846 8270C
Naphthalene	ND	5.0	ug/L	SW846 8270C
2-Nitroaniline	ND	20	ug/L	SW846 8270C
3-Nitroaniline	ND	20	ug/L	SW846 8270C
4-Nitroaniline	ND	20	ug/L	SW846 8270C
Nitrobenzene	ND	4.0	ug/L	SW846 8270C
2-Nitrophenol	ND	5.0	ug/L	SW846 8270C
4-Nitrophenol	ND	20	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	5.0	ug/L	SW846 8270C
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	SW846 8270C
Pentachlorophenol	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	5.0	ug/L	SW846 8270C
Phenol	ND	5.0	ug/L	SW846 8270C
Pyrene	ND	5.0	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	5.0	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	4.0	ug/L	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	85	(27 - 111)
2-Fluorobiphenyl	75	(28 - 110)
Terphenyl-d14	87	(37 - 119)
Phenol-d5	72	(10 - 110)
2-Fluorophenol	74	(10 - 110)
2,4,6-Tribromophenol	69	(22 - 120)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288

Work Order #...: LMC671AA

Matrix.....: WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL6N11AC Matrix.....: WATER
 LCS Lot-Sample#: A9J080000-060
 Prep Date.....: 10/08/09 Analysis Date...: 10/18/09
 Prep Batch #...: 9281060
 Dilution Factor: 1 Final Wgt/Vol...: 2 mL
 Initial Wgt/Vol: 1000 mL

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Acenaphthene	20	15	ug/L	76	SW846 8270C
Acenaphthylene	20	16	ug/L	80	SW846 8270C
Acetophenone	20	18	ug/L	90	SW846 8270C
Anthracene	20	18	ug/L	88	SW846 8270C
Atrazine	20	17	ug/L	84	SW846 8270C
Benzo(a)anthracene	20	16	ug/L	81	SW846 8270C
Benzo(a)pyrene	20	15	ug/L	75	SW846 8270C
Benzo(b)fluoranthene	20	19	ug/L	94	SW846 8270C
Benzo(ghi)perylene	20	18	ug/L	89	SW846 8270C
Benzo(k)fluoranthene	20	17	ug/L	85	SW846 8270C
Benzaldehyde	20	18	ug/L	92	SW846 8270C
1,1'-Biphenyl	20	16	ug/L	81	SW846 8270C
bis(2-Chloroethoxy) methane	20	18	ug/L	90	SW846 8270C
bis(2-Chloroethyl)- ether	20	18	ug/L	90	SW846 8270C
bis(2-Ethylhexyl) phthalate	20	18	ug/L	90	SW846 8270C
4-Bromophenyl phenyl ether	20	16	ug/L	82	SW846 8270C
Butyl benzyl phthalate	20	18	ug/L	90	SW846 8270C
Caprolactam	20	20	ug/L	101	SW846 8270C
Carbazole	20	17	ug/L	87	SW846 8270C
4-Chloroaniline	20	12	ug/L	58	SW846 8270C
4-Chloro-3-methylphenol	20	17	ug/L	83	SW846 8270C
2-Chloronaphthalene	20	14	ug/L	69	SW846 8270C
2-Chlorophenol	20	15	ug/L	76	SW846 8270C
4-Chlorophenyl phenyl ether	20	16	ug/L	81	SW846 8270C
Chrysene	20	16	ug/L	79	SW846 8270C
Dibenz(a,h)anthracene	20	18	ug/L	88	SW846 8270C
Dibenzofuran	20	16	ug/L	79	SW846 8270C
3,3'-Dichlorobenzidine	20	4.0	ug/L	20	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288
 LCS Lot-Sample#: A9J080000-060

Work Order #...: LL6N11AC

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,4-Dichlorophenol	20	16	ug/L	82	SW846 8270C
Diethyl phthalate	20	19	ug/L	94	SW846 8270C
2,4-Dimethylphenol	20	14	ug/L	70	SW846 8270C
Dimethyl phthalate	20	18	ug/L	90	SW846 8270C
Di-n-butyl phthalate	20	19	ug/L	97	SW846 8270C
4,6-Dinitro- 2-methylphenol	20	16	ug/L	82	SW846 8270C
2,4-Dinitrophenol	20	16	ug/L	78	SW846 8270C
2,4-Dinitrotoluene	20	19	ug/L	93	SW846 8270C
2,6-Dinitrotoluene	20	19	ug/L	97	SW846 8270C
Di-n-octyl phthalate	20	19	ug/L	93	SW846 8270C
Fluoranthene	20	19	ug/L	94	SW846 8270C
Fluorene	20	17	ug/L	85	SW846 8270C
Hexachlorobenzene	20	16	ug/L	82	SW846 8270C
Hexachlorobutadiene	20	8.5	ug/L	42	SW846 8270C
Hexachlorocyclopenta- diene	20	5.0	ug/L	25	SW846 8270C
Hexachloroethane	20	9.5	ug/L	47	SW846 8270C
Indeno(1,2,3-cd)pyrene	20	18	ug/L	88	SW846 8270C
Isophorone	20	18	ug/L	90	SW846 8270C
2-Methylnaphthalene	20	14	ug/L	70	SW846 8270C
2-Methylphenol	20	17	ug/L	84	SW846 8270C
4-Methylphenol	40	33	ug/L	83	SW846 8270C
Naphthalene	20	14	ug/L	70	SW846 8270C
2-Nitroaniline	20	18	ug/L	92	SW846 8270C
3-Nitroaniline	20	13	ug/L	66	SW846 8270C
4-Nitroaniline	20	16	ug/L	81	SW846 8270C
Nitrobenzene	20	18	ug/L	89	SW846 8270C
2-Nitrophenol	20	17	ug/L	83	SW846 8270C
4-Nitrophenol	20	17	ug/L	83	SW846 8270C
N-Nitrosodi-n-propyl- amine	20	18	ug/L	89	SW846 8270C
N-Nitrosodiphenylamine	20	16	ug/L	80	SW846 8270C
bis(2-Chloroisopropyl) ether	20	18	ug/L	90	SW846 8270C
Pentachlorophenol	20	18	ug/L	90	SW846 8270C
Phenanthrene	20	17	ug/L	86	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL6N11AC Matrix.....: WATER
 LCS Lot-Sample#: A9J080000-060

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Phenol	20	16	ug/L	81	SW846 8270C
Pyrene	20	17	ug/L	83	SW846 8270C
2,4,5-Trichloro-phenol	20	16	ug/L	80	SW846 8270C
2,4,6-Trichloro-phenol	20	16	ug/L	82	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Nitrobenzene-d5	87	(27 - 111)
2-Fluorobiphenyl	68	(28 - 110)
Terphenyl-d14	91	(37 - 119)
Phenol-d5	78	(10 - 110)
2-Fluorophenol	67	(10 - 110)
2,4,6-Tribromophenol	77	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL6N11AC Matrix.....: WATER
 LCS Lot-Sample#: A9J080000-060
 Prep Date.....: 10/08/09 Analysis Date...: 10/18/09
 Prep Batch #...: 9281060
 Dilution Factor: 1 Final Wgt/Vol...: 2 mL
 Initial Wgt/Vol: 1000 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Acenaphthene	76	(40 - 110)	SW846 8270C
Acenaphthylene	80	(43 - 110)	SW846 8270C
Acetophenone	90	(50 - 130)	SW846 8270C
Anthracene	88	(54 - 114)	SW846 8270C
Atrazine	84	(50 - 130)	SW846 8270C
Benzo(a)anthracene	81	(55 - 115)	SW846 8270C
Benzo(a)pyrene	75	(43 - 116)	SW846 8270C
Benzo(b)fluoranthene	94	(43 - 122)	SW846 8270C
Benzo(ghi)perylene	89	(45 - 120)	SW846 8270C
Benzo(k)fluoranthene	85	(43 - 124)	SW846 8270C
Benzaldehyde	92	(10 - 130)	SW846 8270C
1,1'-Biphenyl	81	(50 - 130)	SW846 8270C
bis(2-Chloroethoxy) methane	90	(39 - 110)	SW846 8270C
bis(2-Chloroethyl)- ether	90	(34 - 113)	SW846 8270C
bis(2-Ethylhexyl) phthalate	90	(36 - 163)	SW846 8270C
4-Bromophenyl phenyl ether	82	(51 - 114)	SW846 8270C
Butyl benzyl phthalate	90	(53 - 126)	SW846 8270C
Caprolactam	101	(50 - 130)	SW846 8270C
Carbazole	87	(53 - 120)	SW846 8270C
4-Chloroaniline	58	(10 - 110)	SW846 8270C
4-Chloro-3-methylphenol	83	(39 - 110)	SW846 8270C
2-Chloronaphthalene	69	(39 - 110)	SW846 8270C
2-Chlorophenol	76	(27 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	81	(50 - 115)	SW846 8270C
Chrysene	79	(55 - 115)	SW846 8270C
Dibenz(a,h)anthracene	88	(46 - 122)	SW846 8270C
Dibenzofuran	79	(46 - 111)	SW846 8270C
3,3'-Dichlorobenzidine	20	(19 - 110)	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL6N11AC Matrix.....: WATER
 LCS Lot-Sample#: A9J080000-060

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
2,4-Dichlorophenol	82	(33 - 110)	SW846 8270C
Diethyl phthalate	94	(33 - 134)	SW846 8270C
2,4-Dimethylphenol	70	(12 - 110)	SW846 8270C
Dimethyl phthalate	90	(15 - 143)	SW846 8270C
Di-n-butyl phthalate	97	(55 - 122)	SW846 8270C
4,6-Dinitro- 2-methylphenol	82	(28 - 112)	SW846 8270C
2,4-Dinitrophenol	78	(17 - 112)	SW846 8270C
2,4-Dinitrotoluene	93	(52 - 123)	SW846 8270C
2,6-Dinitrotoluene	97	(52 - 119)	SW846 8270C
Di-n-octyl phthalate	93	(44 - 128)	SW846 8270C
Fluoranthene	94	(54 - 122)	SW846 8270C
Fluorene	85	(47 - 112)	SW846 8270C
Hexachlorobenzene	82	(51 - 112)	SW846 8270C
Hexachlorobutadiene	42	(13 - 110)	SW846 8270C
Hexachlorocyclopenta- diene	25	(10 - 110)	SW846 8270C
Hexachloroethane	47	(12 - 110)	SW846 8270C
Indeno(1,2,3-cd)pyrene	88	(46 - 121)	SW846 8270C
Isophorone	90	(44 - 128)	SW846 8270C
2-Methylnaphthalene	70	(35 - 110)	SW846 8270C
2-Methylphenol	84	(30 - 110)	SW846 8270C
4-Methylphenol	83	(32 - 110)	SW846 8270C
Naphthalene	70	(31 - 110)	SW846 8270C
2-Nitroaniline	92	(43 - 130)	SW846 8270C
3-Nitroaniline	66	(45 - 116)	SW846 8270C
4-Nitroaniline	81	(45 - 120)	SW846 8270C
Nitrobenzene	89	(37 - 115)	SW846 8270C
2-Nitrophenol	83	(29 - 110)	SW846 8270C
4-Nitrophenol	83	(12 - 130)	SW846 8270C
N-Nitrosodi-n-propyl- amine	89	(37 - 121)	SW846 8270C
N-Nitrosodiphenylamine	80	(53 - 113)	SW846 8270C
bis(2-Chloroisopropyl) ether	90	(25 - 128)	SW846 8270C
Pentachlorophenol	90	(26 - 110)	SW846 8270C
Phenanthrene	86	(52 - 114)	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL6N11AC Matrix.....: WATER
 LCS Lot-Sample#: A9J080000-060

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Phenol	81	(14 - 112)	SW846 8270C
Pyrene	83	(55 - 120)	SW846 8270C
2,4,5-Trichloro-phenol	80	(39 - 110)	SW846 8270C
2,4,6-Trichloro-phenol	82	(35 - 110)	SW846 8270C

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Nitrobenzene-d5	87	(27 - 111)
2-Fluorobiphenyl	68	(28 - 110)
Terphenyl-d14	91	(37 - 119)
Phenol-d5	78	(10 - 110)
2-Fluorophenol	67	(10 - 110)
2,4,6-Tribromophenol	77	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMC671AC Matrix.....: WATER
 LCS Lot-Sample#: A9J100000-014
 Prep Date.....: 10/10/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9283014
 Dilution Factor: 1 Final Wgt/Vol...: 2 mL
 Initial Wgt/Vol: 1000 mL

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Acenaphthene	20	16	ug/L	81	SW846 8270C
Acenaphthylene	20	16	ug/L	80	SW846 8270C
Acetophenone	20	17	ug/L	85	SW846 8270C
Anthracene	20	16	ug/L	78	SW846 8270C
Atrazine	20	19	ug/L	95	SW846 8270C
Benzo(a)anthracene	20	15	ug/L	73	SW846 8270C
Benzo(a)pyrene	20	14	ug/L	71	SW846 8270C
Benzo(b)fluoranthene	20	16	ug/L	80	SW846 8270C
Benzo(ghi)perylene	20	16	ug/L	81	SW846 8270C
Benzo(k)fluoranthene	20	16	ug/L	82	SW846 8270C
Benzaldehyde	20	20	ug/L	98	SW846 8270C
1,1'-Biphenyl	20	16	ug/L	82	SW846 8270C
bis(2-Chloroethoxy) methane	20	17	ug/L	84	SW846 8270C
bis(2-Chloroethyl)- ether	20	17	ug/L	83	SW846 8270C
bis(2-Ethylhexyl) phthalate	20	17	ug/L	84	SW846 8270C
4-Bromophenyl phenyl ether	20	16	ug/L	81	SW846 8270C
Butyl benzyl phthalate	20	15	ug/L	74	SW846 8270C
Caprolactam	20	17	ug/L	84	SW846 8270C
Carbazole	20	17	ug/L	83	SW846 8270C
4-Chloroaniline	20	15	ug/L	76	SW846 8270C
4-Chloro-3-methylphenol	20	15	ug/L	76	SW846 8270C
2-Chloronaphthalene	20	16	ug/L	78	SW846 8270C
2-Chlorophenol	20	16	ug/L	78	SW846 8270C
4-Chlorophenyl phenyl ether	20	16	ug/L	81	SW846 8270C
Chrysene	20	15	ug/L	75	SW846 8270C
Dibenz(a,h)anthracene	20	16	ug/L	81	SW846 8270C
Dibenzofuran	20	16	ug/L	79	SW846 8270C
3,3'-Dichlorobenzidine	20	10	ug/L	51	SW846 8270C

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288
 LCS Lot-Sample#: A9J100000-014

Work Order #...: LMC671AC

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,4-Dichlorophenol	20	15	ug/L	73	SW846 8270C
Diethyl phthalate	20	17	ug/L	86	SW846 8270C
2,4-Dimethylphenol	20	14	ug/L	70	SW846 8270C
Dimethyl phthalate	20	16	ug/L	82	SW846 8270C
Di-n-butyl phthalate	20	17	ug/L	85	SW846 8270C
4,6-Dinitro- 2-methylphenol	20	14	ug/L	70	SW846 8270C
2,4-Dinitrophenol	20	12	ug/L	62	SW846 8270C
2,4-Dinitrotoluene	20	17	ug/L	87	SW846 8270C
2,6-Dinitrotoluene	20	17	ug/L	85	SW846 8270C
Di-n-octyl phthalate	20	16	ug/L	79	SW846 8270C
Fluoranthene	20	17	ug/L	84	SW846 8270C
Fluorene	20	16	ug/L	81	SW846 8270C
Hexachlorobenzene	20	16	ug/L	79	SW846 8270C
Hexachlorobutadiene	20	11	ug/L	57	SW846 8270C
Hexachlorocyclopenta- diene	20	10	ug/L	51	SW846 8270C
Hexachloroethane	20	12	ug/L	61	SW846 8270C
Indeno(1,2,3-cd)pyrene	20	16	ug/L	80	SW846 8270C
Isophorone	20	17	ug/L	85	SW846 8270C
2-Methylnaphthalene	20	16	ug/L	79	SW846 8270C
2-Methylphenol	20	15	ug/L	77	SW846 8270C
4-Methylphenol	40	30	ug/L	76	SW846 8270C
Naphthalene	20	15	ug/L	76	SW846 8270C
2-Nitroaniline	20	18	ug/L	88	SW846 8270C
3-Nitroaniline	20	17	ug/L	85	SW846 8270C
4-Nitroaniline	20	17	ug/L	87	SW846 8270C
Nitrobenzene	20	17	ug/L	86	SW846 8270C
2-Nitrophenol	20	15	ug/L	76	SW846 8270C
4-Nitrophenol	20	15	ug/L	77	SW846 8270C
N-Nitrosodi-n-propyl- amine	20	18	ug/L	90	SW846 8270C
N-Nitrosodiphenylamine	20	15	ug/L	77	SW846 8270C
bis(2-Chloroisopropyl) ether	20	18	ug/L	92	SW846 8270C
Pentachlorophenol	20	15	ug/L	73	SW846 8270C
Phenanthrene	20	16	ug/L	79	SW846 8270C

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMC671AC Matrix.....: WATER
 LCS Lot-Sample#: A9J100000-014

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Phenol	20	16	ug/L	81	SW846 8270C
Pyrene	20	14	ug/L	71	SW846 8270C
2,4,5-Trichloro-phenol	20	16	ug/L	79	SW846 8270C
2,4,6-Trichloro-phenol	20	15	ug/L	76	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Nitrobenzene-d5	86	(27 - 111)
2-Fluorobiphenyl	77	(28 - 110)
Terphenyl-d14	83	(37 - 119)
Phenol-d5	78	(10 - 110)
2-Fluorophenol	81	(10 - 110)
2,4,6-Tribromophenol	86	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMC671AC Matrix.....: WATER
 LCS Lot-Sample#: A9J100000-014
 Prep Date.....: 10/10/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9283014
 Dilution Factor: 1 Final Wgt/Vol...: 2 mL
 Initial Wgt/Vol: 1000 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Acenaphthene	81	(40 - 110)	SW846 8270C
Acenaphthylene	80	(43 - 110)	SW846 8270C
Acetophenone	85	(50 - 130)	SW846 8270C
Anthracene	78	(54 - 114)	SW846 8270C
Atrazine	95	(50 - 130)	SW846 8270C
Benzo(a)anthracene	73	(55 - 115)	SW846 8270C
Benzo(a)pyrene	71	(43 - 116)	SW846 8270C
Benzo(b)fluoranthene	80	(43 - 122)	SW846 8270C
Benzo(ghi)perylene	81	(45 - 120)	SW846 8270C
Benzo(k)fluoranthene	82	(43 - 124)	SW846 8270C
Benzaldehyde	98	(10 - 130)	SW846 8270C
1,1'-Biphenyl	82	(50 - 130)	SW846 8270C
bis(2-Chloroethoxy) methane	84	(39 - 110)	SW846 8270C
bis(2-Chloroethyl)- ether	83	(34 - 113)	SW846 8270C
bis(2-Ethylhexyl) phthalate	84	(36 - 163)	SW846 8270C
4-Bromophenyl phenyl ether	81	(51 - 114)	SW846 8270C
Butyl benzyl phthalate	74	(53 - 126)	SW846 8270C
Caprolactam	84	(50 - 130)	SW846 8270C
Carbazole	83	(53 - 120)	SW846 8270C
4-Chloroaniline	76	(10 - 110)	SW846 8270C
4-Chloro-3-methylphenol	76	(39 - 110)	SW846 8270C
2-Chloronaphthalene	78	(39 - 110)	SW846 8270C
2-Chlorophenol	78	(27 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	81	(50 - 115)	SW846 8270C
Chrysene	75	(55 - 115)	SW846 8270C
Dibenz(a,h)anthracene	81	(46 - 122)	SW846 8270C
Dibenzofuran	79	(46 - 111)	SW846 8270C
3,3'-Dichlorobenzidine	51	(19 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288
 LCS Lot-Sample#: A9J100000-014

Work Order #...: LMC671AC

Matrix.....: WATER

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
2,4-Dichlorophenol	73	(33 - 110)	SW846 8270C
Diethyl phthalate	86	(33 - 134)	SW846 8270C
2,4-Dimethylphenol	70	(12 - 110)	SW846 8270C
Dimethyl phthalate	82	(15 - 143)	SW846 8270C
Di-n-butyl phthalate	85	(55 - 122)	SW846 8270C
4,6-Dinitro- 2-methylphenol	70	(28 - 112)	SW846 8270C
2,4-Dinitrophenol	62	(17 - 112)	SW846 8270C
2,4-Dinitrotoluene	87	(52 - 123)	SW846 8270C
2,6-Dinitrotoluene	85	(52 - 119)	SW846 8270C
Di-n-octyl phthalate	79	(44 - 128)	SW846 8270C
Fluoranthene	84	(54 - 122)	SW846 8270C
Fluorene	81	(47 - 112)	SW846 8270C
Hexachlorobenzene	79	(51 - 112)	SW846 8270C
Hexachlorobutadiene	57	(13 - 110)	SW846 8270C
Hexachlorocyclopenta- diene	51	(10 - 110)	SW846 8270C
Hexachloroethane	61	(12 - 110)	SW846 8270C
Indeno(1,2,3-cd)pyrene	80	(46 - 121)	SW846 8270C
Isophorone	85	(44 - 128)	SW846 8270C
2-Methylnaphthalene	79	(35 - 110)	SW846 8270C
2-Methylphenol	77	(30 - 110)	SW846 8270C
4-Methylphenol	76	(32 - 110)	SW846 8270C
Naphthalene	76	(31 - 110)	SW846 8270C
2-Nitroaniline	88	(43 - 130)	SW846 8270C
3-Nitroaniline	85	(45 - 116)	SW846 8270C
4-Nitroaniline	87	(45 - 120)	SW846 8270C
Nitrobenzene	86	(37 - 115)	SW846 8270C
2-Nitrophenol	76	(29 - 110)	SW846 8270C
4-Nitrophenol	77	(12 - 130)	SW846 8270C
N-Nitrosodi-n-propyl- amine	90	(37 - 121)	SW846 8270C
N-Nitrosodiphenylamine	77	(53 - 113)	SW846 8270C
bis(2-Chloroisopropyl) ether	92	(25 - 128)	SW846 8270C
Pentachlorophenol	73	(26 - 110)	SW846 8270C
Phenanthrene	79	(52 - 114)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMC671AC Matrix.....: WATER
 LCS Lot-Sample#: A9J100000-014

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Phenol	81	(14 - 112)	SW846 8270C
Pyrene	71	(55 - 120)	SW846 8270C
2,4,5-Trichloro-phenol	79	(39 - 110)	SW846 8270C
2,4,6-Trichloro-phenol	76	(35 - 110)	SW846 8270C

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Nitrobenzene-d5	86	(27 - 111)
2-Fluorobiphenyl	77	(28 - 110)
Terphenyl-d14	83	(37 - 119)
Phenol-d5	78	(10 - 110)
2-Fluorophenol	81	(10 - 110)
2,4,6-Tribromophenol	86	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD
 Date Sampled...: 10/06/09 12:40 Date Received...: 10/07/09
 Prep Date.....: 10/08/09 Analysis Date...: 10/12/09
 Prep Batch #...: 9281060
 Dilution Factor: 1 Initial Wgt/Vol: 525 mL Final Wgt/Vol...: 2 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acenaphthene	ND	38	27	ug/L	72		SW846 8270C
	ND	38	30	ug/L	79	10	SW846 8270C
Acenaphthylene	ND	38	29	ug/L	75		SW846 8270C
	ND	38	32	ug/L	83	11	SW846 8270C
Acetophenone	ND	38	31	ug/L	82		SW846 8270C
	ND	38	35	ug/L	92	11	SW846 8270C
Anthracene	ND	38	30	ug/L	78		SW846 8270C
	ND	38	34	ug/L	89	13	SW846 8270C
Atrazine	ND	38	36	ug/L	95		SW846 8270C
	ND	38	41	ug/L	107	12	SW846 8270C
Benzo(a)anthracene	ND	38	27	ug/L	70		SW846 8270C
	ND	38	31	ug/L	82	15	SW846 8270C
Benzo(a)pyrene	ND	38	25	ug/L	65		SW846 8270C
	ND	38	29	ug/L	75	14	SW846 8270C
Benzo(b)fluoranthene	ND	38	28	ug/L	74		SW846 8270C
	ND	38	33	ug/L	88	17	SW846 8270C
Benzo(ghi)perylene	ND	38	30	ug/L	79		SW846 8270C
	ND	38	34	ug/L	90	13	SW846 8270C
Benzo(k)fluoranthene	ND	38	30	ug/L	79		SW846 8270C
	ND	38	33	ug/L	88	10	SW846 8270C
Benzaldehyde	ND	38	33	ug/L	87		SW846 8270C
	ND	38	36	ug/L	93	7.6	SW846 8270C
1,1'-Biphenyl	ND	38	28	ug/L	72		SW846 8270C
	ND	38	30	ug/L	80	9.5	SW846 8270C
bis(2-Chloroethoxy) methane	ND	38	31	ug/L	80		SW846 8270C
	ND	38	33	ug/L	86	7.1	SW846 8270C
bis(2-Chloroethyl)- ether	ND	38	33	ug/L	85		SW846 8270C
	ND	38	34	ug/L	90	5.5	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	38	29	ug/L	75		SW846 8270C
	ND	38	33	ug/L	86	13	SW846 8270C
4-Bromophenyl phenyl ether	ND	38	30	ug/L	77		SW846 8270C
	ND	38	34	ug/L	90	15	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Butyl benzyl phthalate	ND	38	29	ug/L	75		SW846 8270C
	ND	38	34	ug/L	89	18	SW846 8270C
Caprolactam	ND	38	29	ug/L	76		SW846 8270C
	ND	38	33	ug/L	86	12	SW846 8270C
Carbazole	ND	38	28	ug/L	75		SW846 8270C
	ND	38	34	ug/L	89	18	SW846 8270C
4-Chloroaniline	ND	38	26	ug/L	68		SW846 8270C
	ND	38	28	ug/L	73	7.7	SW846 8270C
4-Chloro-3-methylphenol	ND	38	28	ug/L	74		SW846 8270C
	ND	38	30	ug/L	78	4.8	SW846 8270C
	ND	38	26	ug/L	68		SW846 8270C
2-Chloronaphthalene	ND	38	26	ug/L	68		SW846 8270C
	ND	38	30	ug/L	78	13	SW846 8270C
2-Chlorophenol	ND	38	28	ug/L	73		SW846 8270C
	ND	38	32	ug/L	84	14	SW846 8270C
	ND	38	29	ug/L	77		SW846 8270C
4-Chlorophenyl phenyl ether	ND	38	29	ug/L	77		SW846 8270C
	ND	38	34	ug/L	88	14	SW846 8270C
Chrysene	ND	38	27	ug/L	70		SW846 8270C
	ND	38	31	ug/L	81	15	SW846 8270C
Dibenz(a,h)anthracene	ND	38	29	ug/L	76		SW846 8270C
	ND	38	34	ug/L	90	16	SW846 8270C
Dibenzofuran	ND	38	30	ug/L	78		SW846 8270C
	ND	38	33	ug/L	87	12	SW846 8270C
3,3'-Dichlorobenzidine	ND	38	7.7	ug/L	20		SW846 8270C
	ND	38	6.7	ug/L	18	13	SW846 8270C
2,4-Dichlorophenol	ND	38	28	ug/L	73		SW846 8270C
	ND	38	30	ug/L	80	8.0	SW846 8270C
Diethyl phthalate	ND	38	32	ug/L	84		SW846 8270C
	ND	38	35	ug/L	92	9.5	SW846 8270C
2,4-Dimethylphenol	ND	38	25	ug/L	66		SW846 8270C
	ND	38	27	ug/L	72	9.2	SW846 8270C
Dimethyl phthalate	ND	38	31	ug/L	81		SW846 8270C
	ND	38	34	ug/L	90	11	SW846 8270C
Di-n-butyl phthalate	ND	38	31	ug/L	81		SW846 8270C
	ND	38	37	ug/L	97	18	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	38	26	ug/L	68		SW846 8270C
	ND	38	31	ug/L	81	18	SW846 8270C
2,4-Dinitrophenol	ND	38	23	ug/L	59		SW846 8270C
	ND	38	27	ug/L	71	18	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	ND	38	32	ug/L	85		SW846 8270C
	ND	38	36	ug/L	96	12	SW846 8270C
2,6-Dinitrotoluene	ND	38	31	ug/L	82		SW846 8270C
	ND	38	35	ug/L	93	13	SW846 8270C
Di-n-octyl phthalate	ND	38	27	ug/L	72		SW846 8270C
	ND	38	33	ug/L	86	17	SW846 8270C
Fluoranthene	ND	38	31	ug/L	81		SW846 8270C
	ND	38	36	ug/L	96	16	SW846 8270C
Fluorene	ND	38	29	ug/L	77		SW846 8270C
	ND	38	33	ug/L	87	13	SW846 8270C
Hexachlorobenzene	ND	38	29	ug/L	77		SW846 8270C
	ND	38	33	ug/L	86	11	SW846 8270C
Hexachlorobutadiene	ND	38	16	ug/L	43		SW846 8270C
	ND	38	16	ug/L	41	3.8	SW846 8270C
Hexachlorocyclopentadiene	ND	38	13	ug/L	35		SW846 8270C
	ND	38	16	ug/L	42	19	SW846 8270C
Hexachloroethane	ND	38	17	ug/L	44		SW846 8270C
	ND	38	17	ug/L	45	1.9	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	38	30	ug/L	78		SW846 8270C
	ND	38	34	ug/L	90	15	SW846 8270C
Isophorone	ND	38	31	ug/L	80		SW846 8270C
	ND	38	33	ug/L	88	8.8	SW846 8270C
2-Methylnaphthalene	ND	38	28	ug/L	73		SW846 8270C
	ND	38	30	ug/L	80	8.9	SW846 8270C
2-Methylphenol	ND	38	32	ug/L	84		SW846 8270C
	ND	38	35	ug/L	93	10	SW846 8270C
4-Methylphenol	ND	76	60	ug/L	78		SW846 8270C
	ND	76	67	ug/L	88	11	SW846 8270C
Naphthalene	ND	38	26	ug/L	69		SW846 8270C
	ND	38	29	ug/L	75	7.6	SW846 8270C
2-Nitroaniline	ND	38	31	ug/L	81		SW846 8270C
	ND	38	34	ug/L	90	11	SW846 8270C
3-Nitroaniline	ND	38	27	ug/L	71		SW846 8270C
	ND	38	30	ug/L	80	12	SW846 8270C
4-Nitroaniline	ND	38	27	ug/L	70		SW846 8270C
	ND	38	30	ug/L	78	10	SW846 8270C
Nitrobenzene	ND	38	32	ug/L	85		SW846 8270C
	ND	38	35	ug/L	91	6.8	SW846 8270C
2-Nitrophenol	ND	38	27	ug/L	72		SW846 8270C
	ND	38	30	ug/L	79	10	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>
4-Nitrophenol	ND	38	26	ug/L	68		SW846 8270C
	ND	38	33	ug/L	85	22	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	38	31	ug/L	81		SW846 8270C
	ND	38	35	ug/L	93	13	SW846 8270C
N-Nitrosodiphenylamine	ND	38	28	ug/L	74		SW846 8270C
	ND	38	32	ug/L	85	14	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	38	32	ug/L	83		SW846 8270C
	ND	38	36	ug/L	94	13	SW846 8270C
Pentachlorophenol	ND	38	29	ug/L	76		SW846 8270C
	ND	38	34	ug/L	90	17	SW846 8270C
Phenanthrene	ND	38	29	ug/L	75		SW846 8270C
	ND	38	34	ug/L	89	17	SW846 8270C
Phenol	ND	38	28	ug/L	73		SW846 8270C
	ND	38	33	ug/L	86	17	SW846 8270C
Pyrene	ND	38	28	ug/L	73		SW846 8270C
	ND	38	32	ug/L	85	16	SW846 8270C
2,4,5-Trichloro-phenol	ND	38	28	ug/L	73		SW846 8270C
	ND	38	30	ug/L	79	7.3	SW846 8270C
2,4,6-Trichloro-phenol	ND	38	26	ug/L	68		SW846 8270C
	ND	38	29	ug/L	77	12	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	79	(27 - 111)
	81	(27 - 111)
2-Fluorobiphenyl	63	(28 - 110)
	70	(28 - 110)
Terphenyl-d14	74	(37 - 119)
	85	(37 - 119)
Phenol-d5	70	(10 - 110)
	78	(10 - 110)
2-Fluorophenol	70	(10 - 110)
	78	(10 - 110)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4,6-Tribromophenol	71	(22 - 120)
	76	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD
 Date Sampled...: 10/06/09 12:40 Date Received...: 10/07/09
 Prep Date.....: 10/08/09 Analysis Date...: 10/12/09
 Prep Batch #...: 9281060
 Dilution Factor: 1 Initial Wgt/Vol: 525 mL Final Wgt/Vol...: 2 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	72	(36 - 110)			SW846 8270C
	79	(36 - 110)	10	(0-30)	SW846 8270C
Acenaphthylene	75	(39 - 110)			SW846 8270C
	83	(39 - 110)	11	(0-30)	SW846 8270C
Acetophenone	82	(50 - 130)			SW846 8270C
	92	(50 - 130)	11	(0-30)	SW846 8270C
Anthracene	78	(46 - 110)			SW846 8270C
	89	(46 - 110)	13	(0-30)	SW846 8270C
Atrazine	95	(50 - 130)			SW846 8270C
	107	(50 - 130)	12	(0-30)	SW846 8270C
Benzo(a)anthracene	70	(52 - 110)			SW846 8270C
	82	(52 - 110)	15	(0-30)	SW846 8270C
Benzo(a)pyrene	65	(33 - 110)			SW846 8270C
	75	(33 - 110)	14	(0-30)	SW846 8270C
Benzo(b)fluoranthene	74	(33 - 114)			SW846 8270C
	88	(33 - 114)	17	(0-30)	SW846 8270C
Benzo(ghi)perylene	79	(34 - 116)			SW846 8270C
	90	(34 - 116)	13	(0-30)	SW846 8270C
Benzo(k)fluoranthene	79	(32 - 121)			SW846 8270C
	88	(32 - 121)	10	(0-30)	SW846 8270C
Benzaldehyde	87	(10 - 130)			SW846 8270C
	93	(10 - 130)	7.6	(0-30)	SW846 8270C
1,1'-Biphenyl	72	(50 - 130)			SW846 8270C
	80	(50 - 130)	9.5	(0-30)	SW846 8270C
bis(2-Chloroethoxy) methane	80	(35 - 110)			SW846 8270C
	86	(35 - 110)	7.1	(0-30)	SW846 8270C
bis(2-Chloroethyl)- ether	85	(27 - 110)			SW846 8270C
	90	(27 - 110)	5.5	(0-30)	SW846 8270C
bis(2-Ethylhexyl) phthalate	75	(40 - 140)			SW846 8270C
	86	(40 - 140)	13	(0-30)	SW846 8270C
4-Bromophenyl phenyl ether	77	(42 - 113)			SW846 8270C
	90	(42 - 113)	15	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Butyl benzyl phthalate	75	(51 - 121)			SW846 8270C
	89	(51 - 121)	18	(0-30)	SW846 8270C
Caprolactam	76	(50 - 130)			SW846 8270C
	86	(50 - 130)	12	(0-30)	SW846 8270C
Carbazole	75	(49 - 114)			SW846 8270C
	89	(49 - 114)	18	(0-30)	SW846 8270C
4-Chloroaniline	68	(10 - 110)			SW846 8270C
	73	(10 - 110)	7.7	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	74	(33 - 110)			SW846 8270C
	78	(33 - 110)	4.8	(0-30)	SW846 8270C
2-Chloronaphthalene	68	(34 - 110)			SW846 8270C
	78	(34 - 110)	13	(0-30)	SW846 8270C
2-Chlorophenol	73	(26 - 110)			SW846 8270C
	84	(26 - 110)	14	(0-30)	SW846 8270C
4-Chlorophenyl phenyl ether	77	(43 - 113)			SW846 8270C
	88	(43 - 113)	14	(0-30)	SW846 8270C
Chrysene	70	(52 - 111)			SW846 8270C
	81	(52 - 111)	15	(0-30)	SW846 8270C
Dibenz(a,h)anthracene	76	(35 - 118)			SW846 8270C
	90	(35 - 118)	16	(0-30)	SW846 8270C
Dibenzofuran	78	(41 - 110)			SW846 8270C
	87	(41 - 110)	12	(0-30)	SW846 8270C
3,3'-Dichlorobenzidine	20	(10 - 110)			SW846 8270C
	18	(10 - 110)	13	(0-30)	SW846 8270C
2,4-Dichlorophenol	73	(30 - 110)			SW846 8270C
	80	(30 - 110)	8.0	(0-30)	SW846 8270C
Diethyl phthalate	84	(33 - 130)			SW846 8270C
	92	(33 - 130)	9.5	(0-30)	SW846 8270C
2,4-Dimethylphenol	66	(11 - 110)			SW846 8270C
	72	(11 - 110)	9.2	(0-30)	SW846 8270C
Dimethyl phthalate	81	(36 - 124)			SW846 8270C
	90	(36 - 124)	11	(0-30)	SW846 8270C
Di-n-butyl phthalate	81	(50 - 117)			SW846 8270C
	97	(50 - 117)	18	(0-30)	SW846 8270C
4,6-Dinitro-2-methylphenol	68	(25 - 110)			SW846 8270C
	81	(25 - 110)	18	(0-30)	SW846 8270C
2,4-Dinitrophenol	59	(11 - 119)			SW846 8270C
	71	(11 - 119)	18	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 **Work Order #...**: LL5NC1AC-MS **Matrix.....**: WATER
MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
2,4-Dinitrotoluene	85	(46 - 119)			SW846 8270C
	96	(46 - 119)	12	(0-30)	SW846 8270C
2,6-Dinitrotoluene	82	(48 - 115)			SW846 8270C
	93	(48 - 115)	13	(0-30)	SW846 8270C
Di-n-octyl phthalate	72	(36 - 124)			SW846 8270C
	86	(36 - 124)	17	(0-30)	SW846 8270C
Fluoranthene	81	(53 - 111)			SW846 8270C
	96	(53 - 111)	16	(0-30)	SW846 8270C
Fluorene	77	(43 - 110)			SW846 8270C
	87	(43 - 110)	13	(0-30)	SW846 8270C
Hexachlorobenzene	77	(40 - 113)			SW846 8270C
	86	(40 - 113)	11	(0-30)	SW846 8270C
Hexachlorobutadiene	43	(14 - 110)			SW846 8270C
	41	(14 - 110)	3.8	(0-30)	SW846 8270C
Hexachlorocyclopentadiene	35	(10 - 110)			SW846 8270C
	42	(10 - 110)	19	(0-30)	SW846 8270C
Hexachloroethane	44	(10 - 110)			SW846 8270C
	45	(10 - 110)	1.9	(0-30)	SW846 8270C
Indeno(1,2,3-cd)pyrene	78	(36 - 116)			SW846 8270C
	90	(36 - 116)	15	(0-30)	SW846 8270C
Isophorone	80	(34 - 125)			SW846 8270C
	88	(34 - 125)	8.8	(0-30)	SW846 8270C
2-Methylnaphthalene	73	(35 - 110)			SW846 8270C
	80	(35 - 110)	8.9	(0-30)	SW846 8270C
2-Methylphenol	84	(26 - 110)			SW846 8270C
	93	(26 - 110)	10	(0-30)	SW846 8270C
4-Methylphenol	78	(25 - 110)			SW846 8270C
	88	(25 - 110)	11	(0-30)	SW846 8270C
Naphthalene	69	(32 - 110)			SW846 8270C
	75	(32 - 110)	7.6	(0-30)	SW846 8270C
2-Nitroaniline	81	(31 - 129)			SW846 8270C
	90	(31 - 129)	11	(0-30)	SW846 8270C
3-Nitroaniline	71	(23 - 112)			SW846 8270C
	80	(23 - 112)	12	(0-30)	SW846 8270C
4-Nitroaniline	70	(26 - 115)			SW846 8270C
	78	(26 - 115)	10	(0-30)	SW846 8270C
Nitrobenzene	85	(26 - 118)			SW846 8270C
	91	(26 - 118)	6.8	(0-30)	SW846 8270C
2-Nitrophenol	72	(30 - 110)			SW846 8270C
	79	(30 - 110)	10	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
4-Nitrophenol	68	(13 - 127)			SW846 8270C
	85	(13 - 127)	22	(0-30)	SW846 8270C
N-Nitrosodi-n-propyl-amine	81	(25 - 119)			SW846 8270C
	93	(25 - 119)	13	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	74	(28 - 118)			SW846 8270C
	85	(28 - 118)	14	(0-30)	SW846 8270C
bis(2-Chloroisopropyl) ether	83	(13 - 124)			SW846 8270C
	94	(13 - 124)	13	(0-30)	SW846 8270C
Pentachlorophenol	76	(23 - 110)			SW846 8270C
	90	(23 - 110)	17	(0-30)	SW846 8270C
Phenanthrene	75	(47 - 110)			SW846 8270C
	89	(47 - 110)	17	(0-30)	SW846 8270C
Phenol	73	(16 - 110)			SW846 8270C
	86	(16 - 110)	17	(0-30)	SW846 8270C
Pyrene	73	(54 - 115)			SW846 8270C
	85	(54 - 115)	16	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	73	(36 - 110)			SW846 8270C
	79	(36 - 110)	7.3	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	68	(34 - 110)			SW846 8270C
	77	(34 - 110)	12	(0-30)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	79	(27 - 111)
	81	(27 - 111)
2-Fluorobiphenyl	63	(28 - 110)
	70	(28 - 110)
Terphenyl-d14	74	(37 - 119)
	85	(37 - 119)
Phenol-d5	70	(10 - 110)
	78	(10 - 110)
2-Fluorophenol	70	(10 - 110)
	78	(10 - 110)

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LL5NC1AC-MS Matrix.....: WATER
MS Lot-Sample #: A9J070258-011 LL5NC1AD-MSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
2,4,6-Tribromophenol	71	(22 - 120)
	76	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD
 Date Sampled...: 10/08/09 10:45 Date Received...: 10/09/09
 Prep Date.....: 10/10/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9283014
 Dilution Factor: 1 Initial Wgt/Vol: 480 mL Final Wgt/Vol...: 2 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Acenaphthene	ND	42	32	ug/L	77		SW846 8270C
	ND	42	34	ug/L	81	5.5	SW846 8270C
Acenaphthylene	ND	42	31	ug/L	75		SW846 8270C
	ND	42	33	ug/L	80	6.7	SW846 8270C
Acetophenone	ND	42	37	ug/L	88		SW846 8270C
	ND	42	37	ug/L	89	0.78	SW846 8270C
Anthracene	ND	42	29	ug/L	70		SW846 8270C
	ND	42	33	ug/L	79	11	SW846 8270C
Atrazine	ND	42	40	ug/L	95		SW846 8270C
	ND	42	41	ug/L	98	2.4	SW846 8270C
Benzo(a)anthracene	ND	42	25	ug/L	61		SW846 8270C
	ND	42	28	ug/L	68	11	SW846 8270C
Benzo(a)pyrene	ND	42	25	ug/L	60		SW846 8270C
	ND	42	27	ug/L	65	8.6	SW846 8270C
Benzo(b)fluoranthene	ND	42	27	ug/L	65		SW846 8270C
	ND	42	31	ug/L	75	14	SW846 8270C
Benzo(ghi)perylene	ND	42	28	ug/L	68		SW846 8270C
	ND	42	31	ug/L	74	8.7	SW846 8270C
Benzo(k)fluoranthene	ND	42	31	ug/L	75		SW846 8270C
	ND	42	32	ug/L	77	2.5	SW846 8270C
Benzaldehyde	ND	42	44	ug/L	106		SW846 8270C
	ND	42	46	ug/L	111	4.1	SW846 8270C
1,1'-Biphenyl	ND	42	34	ug/L	82		SW846 8270C
	ND	42	34	ug/L	82	0.32	SW846 8270C
bis(2-Chloroethoxy) methane	ND	42	34	ug/L	82		SW846 8270C
	ND	42	38	ug/L	91	11	SW846 8270C
bis(2-Chloroethyl)- ether	ND	42	34	ug/L	82		SW846 8270C
	ND	42	37	ug/L	90	9.3	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	42	27	ug/L	66		SW846 8270C
	ND	42	30	ug/L	71	8.3	SW846 8270C
4-Bromophenyl phenyl ether	ND	42	31	ug/L	74		SW846 8270C
	ND	42	33	ug/L	79	6.7	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Butyl benzyl phthalate	ND	42	28	ug/L	68		SW846 8270C
	ND	42	30	ug/L	72	6.4	SW846 8270C
Caprolactam	ND	42	35	ug/L	84		SW846 8270C
	ND	42	37	ug/L	88	5.2	SW846 8270C
Carbazole	ND	42	33	ug/L	80		SW846 8270C
	ND	42	35	ug/L	83	4.2	SW846 8270C
4-Chloroaniline	ND	42	29	ug/L	69		SW846 8270C
	ND	42	32	ug/L	78	12	SW846 8270C
4-Chloro-3-methylphenol	ND	42	31	ug/L	75		SW846 8270C
	ND	42	34	ug/L	82	9.0	SW846 8270C
	ND	42	31	ug/L	74		SW846 8270C
2-Chloronaphthalene	ND	42	31	ug/L	74		SW846 8270C
	ND	42	32	ug/L	77	3.8	SW846 8270C
2-Chlorophenol	ND	42	33	ug/L	79		SW846 8270C
	ND	42	34	ug/L	81	1.9	SW846 8270C
	ND	42	31	ug/L	74		SW846 8270C
4-Chlorophenyl phenyl ether	ND	42	31	ug/L	74		SW846 8270C
	ND	42	33	ug/L	80	7.1	SW846 8270C
Chrysene	ND	42	28	ug/L	67		SW846 8270C
	ND	42	30	ug/L	72	6.8	SW846 8270C
Dibenz(a,h)anthracene	ND	42	28	ug/L	66		SW846 8270C
	ND	42	31	ug/L	74	10	SW846 8270C
Dibenzofuran	ND	42	31	ug/L	75		SW846 8270C
	ND	42	34	ug/L	81	8.0	SW846 8270C
3,3'-Dichlorobenzidine	ND	42	20	ug/L	47		SW846 8270C
	ND	42	20	ug/L	48	1.4	SW846 8270C
2,4-Dichlorophenol	ND	42	30	ug/L	72		SW846 8270C
	ND	42	32	ug/L	77	7.0	SW846 8270C
Diethyl phthalate	ND	42	35	ug/L	83		SW846 8270C
	ND	42	36	ug/L	87	4.5	SW846 8270C
2,4-Dimethylphenol	ND	42	29	ug/L	69		SW846 8270C
	ND	42	31	ug/L	75	9.2	SW846 8270C
Dimethyl phthalate	ND	42	33	ug/L	80		SW846 8270C
	ND	42	35	ug/L	83	4.0	SW846 8270C
Di-n-butyl phthalate	ND	42	33	ug/L	78		SW846 8270C
	ND	42	35	ug/L	84	6.8	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	42	25	ug/L	60		SW846 8270C
	ND	42	32	ug/L	78	25	SW846 8270C
2,4-Dinitrophenol	ND	42	16	ug/L	38		SW846 8270C
	ND	42	27	ug/L	64 p	51	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrotoluene	ND	42	36	ug/L	86		SW846 8270C
	ND	42	37	ug/L	88	2.4	SW846 8270C
2,6-Dinitrotoluene	ND	42	33	ug/L	79		SW846 8270C
	ND	42	36	ug/L	87	8.9	SW846 8270C
Di-n-octyl phthalate	ND	42	28	ug/L	67		SW846 8270C
	ND	42	30	ug/L	73	7.8	SW846 8270C
Fluoranthene	ND	42	31	ug/L	74		SW846 8270C
	ND	42	35	ug/L	83	12	SW846 8270C
Fluorene	ND	42	31	ug/L	76		SW846 8270C
	ND	42	34	ug/L	82	7.9	SW846 8270C
Hexachlorobenzene	ND	42	29	ug/L	70		SW846 8270C
	ND	42	32	ug/L	78	10	SW846 8270C
Hexachlorobutadiene	ND	42	22	ug/L	52		SW846 8270C
	ND	42	23	ug/L	54	4.4	SW846 8270C
Hexachlorocyclopenta- diene	ND	42	16	ug/L	39		SW846 8270C
	ND	42	17	ug/L	41	4.4	SW846 8270C
Hexachloroethane	ND	42	25	ug/L	59		SW846 8270C
	ND	42	26	ug/L	61	4.4	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	42	28	ug/L	67		SW846 8270C
	ND	42	31	ug/L	73	9.4	SW846 8270C
Isophorone	ND	42	35	ug/L	84		SW846 8270C
	ND	42	39	ug/L	93	10	SW846 8270C
2-Methylnaphthalene	ND	42	31	ug/L	74		SW846 8270C
	ND	42	34	ug/L	81	9.1	SW846 8270C
2-Methylphenol	ND	42	32	ug/L	78		SW846 8270C
	ND	42	34	ug/L	80	3.4	SW846 8270C
4-Methylphenol	ND	83	62	ug/L	75		SW846 8270C
	ND	83	68	ug/L	81	8.4	SW846 8270C
Naphthalene	ND	42	31	ug/L	73		SW846 8270C
	ND	42	33	ug/L	80	8.6	SW846 8270C
2-Nitroaniline	ND	42	36	ug/L	87		SW846 8270C
	ND	42	38	ug/L	92	5.6	SW846 8270C
3-Nitroaniline	ND	42	33	ug/L	79		SW846 8270C
	ND	42	35	ug/L	83	4.9	SW846 8270C
4-Nitroaniline	ND	42	35	ug/L	83		SW846 8270C
	ND	42	36	ug/L	88	5.1	SW846 8270C
Nitrobenzene	ND	42	36	ug/L	87		SW846 8270C
	ND	42	39	ug/L	95	8.2	SW846 8270C
2-Nitrophenol	ND	42	32	ug/L	76		SW846 8270C
	ND	42	34	ug/L	81	6.5	SW846 8270C

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>
4-Nitrophenol	ND	42	31	ug/L	73		SW846 8270C
	ND	42	33	ug/L	78	6.4	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	42	37	ug/L	89		SW846 8270C
	ND	42	41	ug/L	98	9.8	SW846 8270C
N-Nitrosodiphenylamine	ND	42	31	ug/L	73		SW846 8270C
	ND	42	32	ug/L	77	4.5	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	42	39	ug/L	94		SW846 8270C
	ND	42	43	ug/L	103	9.1	SW846 8270C
Pentachlorophenol	ND	42	29	ug/L	71		SW846 8270C
	ND	42	36	ug/L	86	20	SW846 8270C
Phenanthrene	ND	42	31	ug/L	74		SW846 8270C
	ND	42	33	ug/L	80	8.4	SW846 8270C
Phenol	ND	42	33	ug/L	80		SW846 8270C
	ND	42	36	ug/L	87	8.2	SW846 8270C
Pyrene	ND	42	27	ug/L	65		SW846 8270C
	ND	42	30	ug/L	71	8.6	SW846 8270C
2,4,5-Trichloro-phenol	ND	42	33	ug/L	78		SW846 8270C
	ND	42	34	ug/L	82	4.5	SW846 8270C
2,4,6-Trichloro-phenol	ND	42	31	ug/L	75		SW846 8270C
	ND	42	33	ug/L	79	6.0	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	90	(27 - 111)
	90	(27 - 111)
2-Fluorobiphenyl	77	(28 - 110)
	79	(28 - 110)
Terphenyl-d14	72	(37 - 119)
	74	(37 - 119)
Phenol-d5	78	(10 - 110)
	82	(10 - 110)
2-Fluorophenol	84	(10 - 110)
	86	(10 - 110)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4,6-Tribromophenol	83	(22 - 120)
	83	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD
 Date Sampled...: 10/08/09 10:45 Date Received...: 10/09/09
 Prep Date.....: 10/10/09 Analysis Date...: 10/15/09
 Prep Batch #...: 9283014
 Dilution Factor: 1 Initial Wgt/Vol: 480 mL Final Wgt/Vol...: 2 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	77	(36 - 110)			SW846 8270C
	81	(36 - 110)	5.5	(0-30)	SW846 8270C
Acenaphthylene	75	(39 - 110)			SW846 8270C
	80	(39 - 110)	6.7	(0-30)	SW846 8270C
Acetophenone	88	(50 - 130)			SW846 8270C
	89	(50 - 130)	0.78	(0-30)	SW846 8270C
Anthracene	70	(46 - 110)			SW846 8270C
	79	(46 - 110)	11	(0-30)	SW846 8270C
Atrazine	95	(50 - 130)			SW846 8270C
	98	(50 - 130)	2.4	(0-30)	SW846 8270C
Benzo(a)anthracene	61	(52 - 110)			SW846 8270C
	68	(52 - 110)	11	(0-30)	SW846 8270C
Benzo(a)pyrene	60	(33 - 110)			SW846 8270C
	65	(33 - 110)	8.6	(0-30)	SW846 8270C
Benzo(b)fluoranthene	65	(33 - 114)			SW846 8270C
	75	(33 - 114)	14	(0-30)	SW846 8270C
Benzo(ghi)perylene	68	(34 - 116)			SW846 8270C
	74	(34 - 116)	8.7	(0-30)	SW846 8270C
Benzo(k)fluoranthene	75	(32 - 121)			SW846 8270C
	77	(32 - 121)	2.5	(0-30)	SW846 8270C
Benzaldehyde	106	(10 - 130)			SW846 8270C
	111	(10 - 130)	4.1	(0-30)	SW846 8270C
1,1'-Biphenyl	82	(50 - 130)			SW846 8270C
	82	(50 - 130)	0.32	(0-30)	SW846 8270C
bis(2-Chloroethoxy) methane	82	(35 - 110)			SW846 8270C
	91	(35 - 110)	11	(0-30)	SW846 8270C
bis(2-Chloroethyl)- ether	82	(27 - 110)			SW846 8270C
	90	(27 - 110)	9.3	(0-30)	SW846 8270C
bis(2-Ethylhexyl) phthalate	66	(40 - 140)			SW846 8270C
	71	(40 - 140)	8.3	(0-30)	SW846 8270C
4-Bromophenyl phenyl ether	74	(42 - 113)			SW846 8270C
	79	(42 - 113)	6.7	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Butyl benzyl phthalate	68	(51 - 121)			SW846 8270C
	72	(51 - 121)	6.4	(0-30)	SW846 8270C
Caprolactam	84	(50 - 130)			SW846 8270C
	88	(50 - 130)	5.2	(0-30)	SW846 8270C
Carbazole	80	(49 - 114)			SW846 8270C
	83	(49 - 114)	4.2	(0-30)	SW846 8270C
4-Chloroaniline	69	(10 - 110)			SW846 8270C
	78	(10 - 110)	12	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	75	(33 - 110)			SW846 8270C
	82	(33 - 110)	9.0	(0-30)	SW846 8270C
2-Chloronaphthalene	74	(34 - 110)			SW846 8270C
	77	(34 - 110)	3.8	(0-30)	SW846 8270C
2-Chlorophenol	79	(26 - 110)			SW846 8270C
	81	(26 - 110)	1.9	(0-30)	SW846 8270C
4-Chlorophenyl phenyl ether	74	(43 - 113)			SW846 8270C
	80	(43 - 113)	7.1	(0-30)	SW846 8270C
Chrysene	67	(52 - 111)			SW846 8270C
	72	(52 - 111)	6.8	(0-30)	SW846 8270C
Dibenz(a,h)anthracene	66	(35 - 118)			SW846 8270C
	74	(35 - 118)	10	(0-30)	SW846 8270C
Dibenzofuran	75	(41 - 110)			SW846 8270C
	81	(41 - 110)	8.0	(0-30)	SW846 8270C
3,3'-Dichlorobenzidine	47	(10 - 110)			SW846 8270C
	48	(10 - 110)	1.4	(0-30)	SW846 8270C
2,4-Dichlorophenol	72	(30 - 110)			SW846 8270C
	77	(30 - 110)	7.0	(0-30)	SW846 8270C
Diethyl phthalate	83	(33 - 130)			SW846 8270C
	87	(33 - 130)	4.5	(0-30)	SW846 8270C
2,4-Dimethylphenol	69	(11 - 110)			SW846 8270C
	75	(11 - 110)	9.2	(0-30)	SW846 8270C
Dimethyl phthalate	80	(36 - 124)			SW846 8270C
	83	(36 - 124)	4.0	(0-30)	SW846 8270C
Di-n-butyl phthalate	78	(50 - 117)			SW846 8270C
	84	(50 - 117)	6.8	(0-30)	SW846 8270C
4,6-Dinitro-2-methylphenol	60	(25 - 110)			SW846 8270C
	78	(25 - 110)	25	(0-30)	SW846 8270C
2,4-Dinitrophenol	38	(11 - 119)			SW846 8270C
	64 p	(11 - 119)	51	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrotoluene	86	(46 - 119)			SW846 8270C
	88	(46 - 119)	2.4	(0-30)	SW846 8270C
2,6-Dinitrotoluene	79	(48 - 115)			SW846 8270C
	87	(48 - 115)	8.9	(0-30)	SW846 8270C
Di-n-octyl phthalate	67	(36 - 124)			SW846 8270C
	73	(36 - 124)	7.8	(0-30)	SW846 8270C
Fluoranthene	74	(53 - 111)			SW846 8270C
	83	(53 - 111)	12	(0-30)	SW846 8270C
Fluorene	76	(43 - 110)			SW846 8270C
	82	(43 - 110)	7.9	(0-30)	SW846 8270C
Hexachlorobenzene	70	(40 - 113)			SW846 8270C
	78	(40 - 113)	10	(0-30)	SW846 8270C
Hexachlorobutadiene	52	(14 - 110)			SW846 8270C
	54	(14 - 110)	4.4	(0-30)	SW846 8270C
Hexachlorocyclopentadiene	39	(10 - 110)			SW846 8270C
	41	(10 - 110)	4.4	(0-30)	SW846 8270C
Hexachloroethane	59	(10 - 110)			SW846 8270C
	61	(10 - 110)	4.4	(0-30)	SW846 8270C
Indeno(1,2,3-cd)pyrene	67	(36 - 116)			SW846 8270C
	73	(36 - 116)	9.4	(0-30)	SW846 8270C
Isophorone	84	(34 - 125)			SW846 8270C
	93	(34 - 125)	10	(0-30)	SW846 8270C
2-Methylnaphthalene	74	(35 - 110)			SW846 8270C
	81	(35 - 110)	9.1	(0-30)	SW846 8270C
2-Methylphenol	78	(26 - 110)			SW846 8270C
	80	(26 - 110)	3.4	(0-30)	SW846 8270C
4-Methylphenol	75	(25 - 110)			SW846 8270C
	81	(25 - 110)	8.4	(0-30)	SW846 8270C
Naphthalene	73	(32 - 110)			SW846 8270C
	80	(32 - 110)	8.6	(0-30)	SW846 8270C
2-Nitroaniline	87	(31 - 129)			SW846 8270C
	92	(31 - 129)	5.6	(0-30)	SW846 8270C
3-Nitroaniline	79	(23 - 112)			SW846 8270C
	83	(23 - 112)	4.9	(0-30)	SW846 8270C
4-Nitroaniline	83	(26 - 115)			SW846 8270C
	88	(26 - 115)	5.1	(0-30)	SW846 8270C
Nitrobenzene	87	(26 - 118)			SW846 8270C
	95	(26 - 118)	8.2	(0-30)	SW846 8270C
2-Nitrophenol	76	(30 - 110)			SW846 8270C
	81	(30 - 110)	6.5	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
 MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
4-Nitrophenol	73	(13 - 127)			SW846 8270C
	78	(13 - 127)	6.4	(0-30)	SW846 8270C
N-Nitrosodi-n-propyl-amine	89	(25 - 119)			SW846 8270C
	98	(25 - 119)	9.8	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	73	(28 - 118)			SW846 8270C
	77	(28 - 118)	4.5	(0-30)	SW846 8270C
bis(2-Chloroisopropyl) ether	94	(13 - 124)			SW846 8270C
	103	(13 - 124)	9.1	(0-30)	SW846 8270C
Pentachlorophenol	71	(23 - 110)			SW846 8270C
	86	(23 - 110)	20	(0-30)	SW846 8270C
Phenanthrene	74	(47 - 110)			SW846 8270C
	80	(47 - 110)	8.4	(0-30)	SW846 8270C
Phenol	80	(16 - 110)			SW846 8270C
	87	(16 - 110)	8.2	(0-30)	SW846 8270C
Pyrene	65	(54 - 115)			SW846 8270C
	71	(54 - 115)	8.6	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	78	(36 - 110)			SW846 8270C
	82	(36 - 110)	4.5	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	75	(34 - 110)			SW846 8270C
	79	(34 - 110)	6.0	(0-30)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	90	(27 - 111)
	90	(27 - 111)
2-Fluorobiphenyl	77	(28 - 110)
	79	(28 - 110)
Terphenyl-d14	72	(37 - 119)
	74	(37 - 119)
Phenol-d5	78	(10 - 110)
	82	(10 - 110)
2-Fluorophenol	84	(10 - 110)
	86	(10 - 110)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: 9J07288 Work Order #...: LMATR1AL-MS Matrix.....: WATER
MS Lot-Sample #: A9J090247-004 LMATR1AM-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4,6-Tribromophenol	83	(22 - 120)
	83	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

END OF REPORT

ATTACHMENT B
DATA VALIDATION MEMORANDUM



MEMORANDUM

TO: Jennifer Quigley REF. NO.: 17360

FROM: Rawa Fleisher/tl/2/Det DATE: November 17, 2009

RE: Data Quality Assessment and Full Validation SSOW NO: 017307-030020
Monitoring Well and Culvert Sampling – October 2009
Motors Liquidation Company Grand Rapids MFD
Wyoming, Michigan

The following details a quality assessment and validation of the analytical data resulting from the October 6 to October 8, 2009, collection of 40 groundwater and six (6) quality control samples from the Motors Liquidation Company (MLC) Grand Rapids MFD Site in Wyoming, Michigan. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica in North Canton, Ohio (TA) in accordance with the methodologies presented in Table 2.

The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP). Application of quality assurance criteria was consistent with "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999. This guideline is referred to as "NFGs" in this Memorandum.

Sample Quantitation

The laboratory reported detected concentrations of volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) below the laboratory's report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are presented in Table 2.

The samples were prepared and/or analyzed within the specified holding time periods.

The samples were shipped and maintained in accordance with the sample preservation requirements.

Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) – Organic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) analyses was checked at the beginning of each 12-hour period using bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the NFGs before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

Initial Calibration – Organic Analyses

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

- i. GC/MS (all compounds) – must meet a minimum mean relative response factor (RRF) of 0.05 ;
- ii. GC/MS (all compounds) – the percent relative standard deviation (RSD) values must not exceed 30.0 percent or a minimum coefficient of determination of 0.99 if quadratic equation calibration curves are used; and
- iii. GC (all compounds using an average for multi-response compounds) – the percent RSD must not exceed 20 percent or a correlation coefficient of 0.995 when linear regression calibration curves are used.

Calibration standards were analyzed at the required frequency and the results met the above criteria for linearity and sensitivity.

Continuing Calibration – Organic Analyses

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours for GC/MS analyses. The following criteria are employed to evaluate the continuing calibration data:

- i. GC/MS (all compounds) – must meet a minimum mean RRF of 0.05 ;
- ii. GC/MS (all compounds) – the percent difference between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent;
- iii. GC/MS (compounds determined by quadratic curve) – the percent drift between the true value and the continuing calibration value must not exceed 25 percent;

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response and sensitivity with the exception of the qualified samples presented in Table 3.

Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

The samples presented in Table 4 should be qualified due to laboratory contamination. The laboratory flagged the organic concentrations with a "B" which may be disregarded. The remaining method blank samples did not contain target compounds with concentrations that impacted the investigative samples.

Surrogate Compounds – Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

The surrogate recovery acceptance criteria were met for all samples.

Matrix Spike/Matrix Spike Duplicate Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The inorganic control limits are defined by the methods or the laboratory and the NFG. The samples selected for MS/MSD analysis are identified in Table 1.

In some sample batches, non-Site-specific samples were utilized as MS/MSDs. Qualification of samples associated with these MS/MSDs was not performed. The samples that should be qualified due to violation of MS/MSD percent recovery criteria are outlined in Table 5. The MS/MSD percent recoveries and associated RPD acceptance criteria were met in the remaining sample analyses.

Laboratory Control Sample/Laboratory Control Duplicate Analyses

The laboratory control sample and laboratory control duplicate (LCS/LCD) analyses serve as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS/LCD percent recoveries were evaluated against method and laboratory established control limits.

The LCS/LCD percent recoveries were within the laboratory control limits or did not warrant qualification, indicating that an acceptable level of overall performance was achieved with the exception of the qualified samples presented in Table 6.

Laboratory precision was verified by the relative percent difference (RPD) of the LCS/LCD when a matrix spike/matrix spike duplicate was not analyzed.

The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Internal Standard Summaries – Organic Analyses

To correct for variability in the GC/MS response and sensitivity, internal standard (IS) compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC and SVOC analyses were monitored using IS peak area and retention time (RT) data. The IS peak areas and RTs of the samples are required to meet the following criteria:

- i. IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated continuing calibration standard IS area counts; and
- ii. The RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC and SVOC internal standard data showed that the IS area counts and retention time data were within the acceptance criteria.

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Target Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. The samples identified in Table 1 were reviewed. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of four (4) field duplicate sample sets and two (2) trip blank samples.

Field Duplicate Samples

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value.

The data indicates that an adequate level of precision was achieved for the sampling event.

Trip Blank Samples

To monitor potential cross-contamination of VOC during sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

Field Quality Assurance/Quality Control (Continued)

The samples that should be qualified due to trip blank contamination are summarized in Table 7. No additional target analytes were reported as detected in the trip blank samples.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

**SAMPLE COLLECTION AND ANALYSIS SUMMARY
MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
GENERAL MOTORS GRAND RAPIDS MFD
WYOMING, MICHIGAN**

CRA SDG No.: 20-3	Sample Identification	Location	Matrix	QC Samples	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters	
							TCL VOC	TCL SVOC
		TA-NC Lot No.: A9J070288		TA-NC SDG No.: 9J07288				
	GW-17360-100609-DR-276	C-1	water		10/6/2009	10:30:00 AM	X	
	GW-17360-100609-DR-277	C-1	water	DUP (-276)	10/6/2009	10:35:00 AM	X	
	GW-17360-100609-DR-278	C-2	water		10/6/2009	10:40:00 AM	X	
	GW-17360-100609-DR-279	C-3	water		10/6/2009	10:50:00 AM	X	
	GW-17360-100609-DR-280	MW17-06	water	MS/MSD	10/6/2009	11:00:00 AM	X	
	GW-17360-100609-DR-281	85-7	water		10/6/2009	12:50:00 PM	X	
	GW-17360-100609-DR-282	MW15-04	water		10/6/2009	1:00:00 PM	X	
	GW-17360-100609-DR-283	85-2	water		10/6/2009	1:30:00 PM	X	
	GW-17360-100609-DR-284	87-9	water		10/6/2009	2:00:00 PM	X	
	GW-17360-100609-DR-285	MW7-03	water		10/6/2009	2:10:00 PM	X	
	GW-17360-100609-DR-286	86-3	water		10/6/2009	2:20:00 PM	X	
	GW-17360-100609-DR-287	87-8	water		10/6/2009	3:05:00 PM	X	
	GW-17360-100609-DR-288	MW2-03	water		10/6/2009	3:10:00 PM	X	
	GW-17360-100609-DR-289	MW1-03	water		10/6/2009	3:55:00 PM	X	
	TB-17360-100609	Trip Blank	water	Trip Blank	10/6/2009	---	X	
	GW-17360-100609-DR-290	85-6	water		10/6/2009	4:00:00 PM	X	X
	GW-17360-100609-DR-291	85-6	water	DUP (-290)	10/6/2009	4:05:00 PM	X	X
		TA-NC Lot No.: A9J090242		TA-NC SDG No.: 9J07288				
CRA SDG No.: 20-4								
	TB-17360-100709	Trip Blank	water	Trip Blank	10/7/2009	---	X	
	GW-17360-100709-DR-292	85-5B	water		10/7/2009	8:35:00 AM	X	X
	GW-17360-100709-DR-293	85-3	water		10/7/2009	9:10:00 AM	X	X
	GW-17360-100709-DR-294	86-1	water		10/7/2009	10:35:00 AM	X	X
	GW-17360-100709-DR-295	MW13-04	water		10/7/2009	11:30:00 AM	X	
	GW-17360-100709-DR-296	MW14-04	water		10/7/2009	8:20:00 AM	X	
	GW-17360-100709-DR-297	87-5	water		10/7/2009	9:05:00 AM	X	
	GW-17360-100709-DR-298	86-2	water		10/7/2009	9:30:00 AM	X	
	GW-17360-100709-DR-299	87-4	water		10/7/2009	10:25:00 AM	X	
	GW-17360-100709-DR-300	87-2	water		10/7/2009	11:30:00 AM	X	
	GW-17360-100709-DR-301	87-1	water		10/7/2009	12:10:00 PM	X	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
 MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
 GENERAL MOTORS GRAND RAPIDS MFD
 WYOMING, MICHIGAN

CRA SDG No.: 20-4 (continued)	Sample Identification	Location	Matrix	QC Samples	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters	
							TCL VOC	TCL SVOC
		TA-NC Lot No.: A9J090242		TA-NC SDG No.: 9J07288				
	GW-17360-100709-DR-302	MW3-03	water		10/7/2009	12:30:00 PM	X	
	GW-17360-100709-DR-303	85-1	water		10/7/2009	1:05:00 PM	X	
	GW-17360-100809-DR-304	88-2	water		10/8/2009	9:10:00 AM	X	
	GW-17360-100809-DR-305	88-3	water		10/8/2009	9:15:00 AM	X	
	GW-17360-100809-DR-306	88-3	water	DUP (-305)	10/8/2009	9:20:00 AM	X	
	GW-17360-100809-DR-307	88-4	water		10/8/2009	9:45:00 AM	X	
	GW-17360-100809-DR-308	87-10	water		10/8/2009	10:00:00 AM	X	
	GW-17360-100809-DR-309	87-11	water	MS/MSD	10/8/2009	10:25:00 AM	X	
	GW-17360-100809-DR-310	87-13	water		10/8/2009	10:30:00 AM	X	
	GW-17360-100809-DR-311	MW6-03	water		10/8/2009	11:00:00 AM	X	
	GW-17360-100809-DR-312	MW9-04	water		10/8/2009	11:15:00 AM	X	
	GW-17360-100809-DR-313	MW8-04	water		10/8/2009	11:30:00 AM	X	
	GW-17360-100809-DR-314	MW5-03	water		10/8/2009	11:45:00 AM	X	
	GW-17360-100809-DR-315	MW4-03	water		10/8/2009	1:30:00 PM	X	
	GW-17360-100809-DR-316	MW11D-04	water		10/8/2009	1:40:00 PM	X	
	GW-17360-100809-DR-317	MW11S-05	water		10/8/2009	1:55:00 PM	X	
	GW-17360-100809-DR-318	MW10-04	water		10/8/2009	2:00:00 PM	X	
	GW-17360-100809-DR-319	MW10-04	water	DUP (-318)	10/8/2009	2:05:00 PM	X	

Notes:

- DUP - Field Duplicate Sample of sample in parenthesis
- MS/MSD - Matrix Spike/Matrix Spike Duplicate
- QC - Quality Control
- SVOC - Semivolatle Organic Compounds
- TCL - Target Compound List
- VOC - Volatile Organic Compounds

TABLE 2

SUMMARY OF ANALYTICAL METHODS, HOLDING TIME PERIODS, AND PRESERVATIVES
 MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
 GENERAL MOTORS GRAND RAPIDS MFD
 WYOMING, MICHIGAN

<i>Parameter</i>	<i>Method</i> ¹	<i>Matrix</i>	<i>Holding Time</i>	<i>Preservation</i>
TCL VOC	SW-846 8260	Water	- 14 days from sample collection to completion of analysis.	pH < 2 and Iced, 4 ± 2° C
TCL SVOC	SW-846 8270C	Water	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis	Iced, 4 ± 2° C

Notes

¹ Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition, and Promulgated updates, November 1986

SVOC - Semivolatile Organic Compounds

TCL - Target Compound List

VOC - Volatile Organic Compounds

TABLE 3

**QUALIFIED SAMPLE RESULTS DUE TO VIOLATION OF CONTINUING CALIBRATION REQUIREMENTS
MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
GENERAL MOTORS GRAND RAPIDS MFD
WYOMING, MICHIGAN**

<i>Parameter</i>	<i>Analyte</i>	<i>Calibration Date</i>	<i>RRF</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Bromomethane	10/15/2009	---	-51.2	GW-17360-100609-DR-276	1.0 UJ	µg/L
	Trichlorofluoromethane		---	-48.6	GW-17360-100609-DR-277	1.0 UJ	µg/L
	Trifluorotrchloroethane		---	-42.1	GW-17360-100609-DR-278	1.0 UJ	µg/L
TCL VOC					GW-17360-100609-DR-279	1.0 UJ	µg/L
					GW-17360-100609-DR-280	1.0 UJ	µg/L
					GW-17360-100609-DR-281	1.0 UJ	µg/L
					GW-17360-100609-DR-282	1.0 UJ	µg/L
					GW-17360-100609-DR-283	1.0 UJ	µg/L
					GW-17360-100609-DR-284	1.0 UJ	µg/L
					GW-17360-100609-DR-285	1.0 UJ	µg/L
					GW-17360-100609-DR-286	1.0 UJ	µg/L
					GW-17360-100609-DR-287	1.0 UJ	µg/L
					GW-17360-100609-DR-288	1.0 UJ	µg/L
					GW-17360-100609-DR-289	17 UJ	µg/L
					GW-17360-100609-DR-290	1.0 UJ	µg/L
					GW-17360-100609-DR-291	1.0 UJ	µg/L
					TB-17360-100609	1.0 UJ	µg/L
					GW-17360-100709-DR-292	1.0 UJ	µg/L
					GW-17360-100709-DR-293	1.0 UJ	µg/L
					GW-17360-100709-DR-294	1.0 UJ	µg/L
GW-17360-100709-DR-295	1.0 UJ	µg/L					
GW-17360-100709-DR-296	1.0 UJ	µg/L					
GW-17360-100709-DR-297	1.0 UJ	µg/L					
GW-17360-100709-DR-298	1.0 UJ	µg/L					
GW-17360-100709-DR-299	1.0 UJ	µg/L					
GW-17360-100709-DR-300	1.0 UJ	µg/L					
GW-17360-100709-DR-301	1.0 UJ	µg/L					
GW-17360-100709-DR-302	1.0 UJ	µg/L					
GW-17360-100709-DR-303	1.0 UJ	µg/L					
GW-17360-100809-DR-304	1.0 UJ	µg/L					
GW-17360-100809-DR-305	1.0 UJ	µg/L					
GW-17360-100809-DR-306	1.0 UJ	µg/L					
GW-17360-100809-DR-307	1.0 UJ	µg/L					
GW-17360-100809-DR-308	1.0 UJ	µg/L					
TCL VOC	1,1,2,2-Tetrachloroethane	10/16/2009	---	25.6	GW-17360-100709-DR-292	1.0 UJ	µg/L
	Dichlorodifluoromethane		---	-40.4	GW-17360-100709-DR-293	1.0 UJ	µg/L
	Trifluorotrchloroethane		---	-50.7	GW-17360-100709-DR-294	1.0 UJ	µg/L

TABLE 3

**QUALIFIED SAMPLE RESULTS DUE TO VIOLATION OF CONTINUING CALIBRATION REQUIREMENTS
MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
GENERAL MOTORS GRAND RAPIDS MFD
WYOMING, MICHIGAN**

<i>Parameter</i>	<i>Analyte</i>	<i>Calibration Date</i>	<i>RRF</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
Continued							
TCL VOC	1,1,2,2-Tetrachloroethane	10/16/2009	---	25.6	GW-17360-100809-DR-309	1.0 UJ	µg/L
	Dichlorodifluoromethane		---	-40.4	GW-17360-100809-DR-310	1.0 UJ	µg/L
	Trifluorotrchloroethane		---	-50.7	TB-17360-100709	1.0 UJ	µg/L
TCL VOC	1,2,4-Trichlorobenzene	10/16/2009	---	51.0	GW-17360-100709-DR-292	5.0 UJ	µg/L
					GW-17360-100709-DR-293	5.0 UJ	µg/L
					GW-17360-100709-DR-294	5.0 UJ	µg/L
					GW-17360-100709-DR-295	5.0 UJ	µg/L
					GW-17360-100709-DR-296	5.0 UJ	µg/L
					GW-17360-100709-DR-297	5.0 UJ	µg/L
					GW-17360-100709-DR-298	5.0 UJ	µg/L
					GW-17360-100709-DR-299	5.0 UJ	µg/L
					GW-17360-100709-DR-300	5.0 UJ	µg/L
					GW-17360-100709-DR-301	5.0 UJ	µg/L
					GW-17360-100709-DR-302	5.0 UJ	µg/L
					GW-17360-100709-DR-303	5.0 UJ	µg/L
					GW-17360-100809-DR-304	5.0 UJ	µg/L
					GW-17360-100809-DR-305	5.0 UJ	µg/L
		TCL VOC	1,2,4-Trichlorobenzene Methylene chloride	10/17/2009	---	48.8	GW-17360-100809-DR-311
	---			25.9	GW-17360-100809-DR-312	5.0 UJ	µg/L
					GW-17360-100809-DR-313	5.0 UJ	µg/L
					GW-17360-100809-DR-314	5.0 UJ	µg/L
					GW-17360-100809-DR-315	5.0 UJ	µg/L
					GW-17360-100809-DR-316	5.0 UJ	µg/L
					GW-17360-100809-DR-317	5.0 UJ	µg/L
					GW-17360-100809-DR-318	5.0 UJ	µg/L
					GW-17360-100809-DR-319	5.0 UJ	µg/L
					TB-17360-100709	5.0 UJ	µg/L

TABLE 3

**QUALIFIED SAMPLE RESULTS DUE TO VIOLATION OF CONTINUING CALIBRATION REQUIREMENTS
MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
GENERAL MOTORS GRAND RAPIDS MFD
WYOMING, MICHIGAN**

<i>Parameter</i>	<i>Analyte</i>	<i>Calibration Date</i>	<i>RRF</i>	<i>%D</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Dichlorodifluoromethane	10/17/2009	---	-40.1	GW-17360-100809-DR-311	1.0 UJ	µg/L
	Trifluorotrchloroethane		---	-40.9	GW-17360-100809-DR-312	1.0 UJ	µg/L
					GW-17360-100809-DR-313	1.0 UJ	µg/L
					GW-17360-100809-DR-314	1.0 UJ	µg/L
					GW-17360-100809-DR-315	1.0 UJ	µg/L
					GW-17360-100809-DR-316	1.0 UJ	µg/L
					GW-17360-100809-DR-317	1.0 UJ	µg/L
					GW-17360-100809-DR-318	1.0 UJ	µg/L
					GW-17360-100809-DR-319	1.0 UJ	µg/L

Notes:

UJ - Non-detect with an Estimated Report Limit

%D - Percent Difference

RRF - Relative Response Factor

SVOC - Semivolatile Organic Compounds

TCL - Target Compound List

VOC - Volatile Organic Compounds

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO METHOD BLANK CONTAMINATION
 MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
 GENERAL MOTORS GRAND RAPIDS MED
 WYOMING, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result</i>	<i>Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Methylene chloride	10/15/09	0.5	GW-17360-100609-DR-289	83 U	µg/L
TCL SVOC	bis(2-Ethylhexyl)phthalate	10/10/09	1.5	GW-17360-100709-DR-293	5.0 U	µg/L

Notes:

- U - Qualified as Not Detected at the report limit
- SVOC - Semivolatile Organic Compounds
- TCL - Target Compound List
- VOC - Volatile Organic Compounds

TABLE 5

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO OUTLYING
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES AND/OR RELATIVE PERCENT DIFFERENCE
MONITORING WELL AND CULT VERT SAMPLING - OCTOBER 2009
GENERAL MOTORS GRAND RAPIDS MFD
WYOMING, MICHIGAN

Parameter	Analyte	MS Recovery (percent)	MSD Recovery (percent)	RPD	Control Limits		Associated Sample ID	Qualified Result	Units
					Recovery (percent)	RPD (percent)			
TCL VOC	cis-1,3-Dichloropropene	70	73	4.0	82-130	30	GW-17360-100609-DR-280	1.0 UJ	µg/L
	4-Methyl-2-Pentanone	73	79	8.5	82-135	30		50 UJ	µg/L
	Dichlorodifluoromethane	59	61	4.6	70-130	30		1.0 UJ	µg/L
	Methyl acetate	62	64	2.5	70-130	30		10 UJ	µg/L
TCL VOC	1,1,2,2-Tetrachloroethane	74	84	12	88-116	30		1.0 UJ	µg/L
	cis-1,3-Dichloropropene	76	76	0.48	82-130	30	GW-17360-100809-DR-309	1.0 UJ	µg/L
	Methyl cyclohexane	62	61	1.6	70-130	30		1.0 UJ	µg/L
	1,2,4-Trichlorobenzene	49	53	6.9	70-130	30		5.0 UJ	µg/L
	Tetrachloroethene	84	83	1.8	85-121	30		1.0 UJ	µg/L
	Trichloroethene	42	49	1.9	62-130	30		35 J	µg/L
	1,1,2,2-Tetrachloroethane	76	78	2.8	88-116	30		1.0 UJ	µg/L

Notes:

- J - Estimated Concentration
- UJ - Non-detect with an Estimated Report Limit
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- RPD - Relative Percent Difference
- TCL - Target Compound List
- VOC - Volatile Organic Compounds

TABLE 6

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING
 LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
 MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
 GENERAL MOTORS GRAND RAPIDS MFD
 WYOMING, MICHIGAN

Parameter	Analyte	LCS Date	LCS %Rec	LCD %Rec	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						%Rec	RPD			
TCL VOC	cis-1,3-Dichloropropene trans-1,3-Dichloropropene Dichlorodifluoromethane 1,1,2,2-Tetrachloroethane	10/15/09	79	80	0.70	84-139	30	GW-17360-100609-DR-276	1.0 UJ	µg/L
			78	80	2.7	84-130	30	GW-17360-100609-DR-277	1.0 UJ	µg/L
			61	69	12	70-130	30	GW-17360-100609-DR-278	1.0 UJ	µg/L
			79	81	1.5	85-118	30	GW-17360-100609-DR-279	1.0 UJ	µg/L
								GW-17360-100609-DR-280	1.0 UJ	µg/L
								GW-17360-100609-DR-281	1.0 UJ	µg/L
								GW-17360-100609-DR-282	1.0 UJ	µg/L
								GW-17360-100609-DR-283	1.0 UJ	µg/L
								GW-17360-100609-DR-284	1.0 UJ	µg/L
								GW-17360-100609-DR-285	1.0 UJ	µg/L
								GW-17360-100609-DR-286	1.0 UJ	µg/L
								GW-17360-100609-DR-287	1.0 UJ	µg/L
								GW-17360-100609-DR-288	1.0 UJ	µg/L
								GW-17360-100609-DR-289	17 UJ	µg/L
TCL VOC	Methyl acetate	10/15/09	73	67	7.9	70-130	30	GW-17360-100609-DR-291	1.0 UJ	µg/L
								TB-17360-100609	1.0 UJ	µg/L
								GW-17360-100609-DR-276	10 UJ	µg/L
								GW-17360-100609-DR-277	10 UJ	µg/L
								GW-17360-100609-DR-278	10 UJ	µg/L
								GW-17360-100609-DR-279	10 UJ	µg/L
								GW-17360-100609-DR-280	10 UJ	µg/L
								GW-17360-100609-DR-281	10 UJ	µg/L
								GW-17360-100609-DR-282	10 UJ	µg/L
								GW-17360-100609-DR-283	10 UJ	µg/L
								GW-17360-100609-DR-284	10 UJ	µg/L
								GW-17360-100609-DR-285	10 UJ	µg/L
								GW-17360-100609-DR-286	10 UJ	µg/L
								GW-17360-100609-DR-287	10 UJ	µg/L
					GW-17360-100609-DR-288	10 UJ	µg/L			
					GW-17360-100609-DR-289	170 UJ	µg/L			
					GW-17360-100609-DR-290	10 UJ	µg/L			
					GW-17360-100609-DR-291	10 UJ	µg/L			
					TB-17360-100609	10 UJ	µg/L			

TABLE 6

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING
 LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
 MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
 GENERAL MOTORS GRAND RAPIDS MFD
 WYOMING, MICHIGAN

Parameter	Analyte	LCS Date	LCS %Rec	LCD %Rec	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						%Rec	RPD			
TCL VOC	Bromodichloromethane	10/15/09	87	86	0.92	87-130	30	GW-17360-100609-DR-276	1.0 UJ	µg/L
								GW-17360-100609-DR-277	1.0 UJ	µg/L
								GW-17360-100609-DR-278	1.0 UJ	µg/L
								GW-17360-100609-DR-279	1.0 UJ	µg/L
								GW-17360-100609-DR-280	1.0 UJ	µg/L
								GW-17360-100609-DR-281	1.0 UJ	µg/L
								GW-17360-100609-DR-282	1.0 UJ	µg/L
								GW-17360-100609-DR-283	1.0 UJ	µg/L
								GW-17360-100609-DR-284	1.0 UJ	µg/L
								GW-17360-100609-DR-285	0.17 J	µg/L
								GW-17360-100609-DR-286	1.0 UJ	µg/L
								GW-17360-100609-DR-287	1.0 UJ	µg/L
								GW-17360-100609-DR-288	0.49 J	µg/L
								GW-17360-100609-DR-289	17 UJ	µg/L
								GW-17360-100609-DR-290	1.0 UJ	µg/L
								GW-17360-100609-DR-291	1.0 UJ	µg/L
								TB-17360-100609	1.0 UJ	µg/L
TCL VOC	Methyl cyclohexane 1,1,2,2-Tetrachloroethane	10/15/09	68 74	67 74	0.41 0.14	70-130 85-118	30 30	GW-17360-100709-DR-292	1.0 UJ	µg/L
								GW-17360-100709-DR-293	1.0 UJ	µg/L
								GW-17360-100709-DR-294	1.0 UJ	µg/L
								GW-17360-100709-DR-295	1.0 UJ	µg/L
								GW-17360-100709-DR-296	1.0 UJ	µg/L
								GW-17360-100709-DR-297	1.0 UJ	µg/L
								GW-17360-100709-DR-298	1.0 UJ	µg/L
								GW-17360-100709-DR-299	1.0 UJ	µg/L
								GW-17360-100709-DR-300	1.0 UJ	µg/L
								GW-17360-100709-DR-301	1.0 UJ	µg/L
								GW-17360-100709-DR-302	1.0 UJ	µg/L
								GW-17360-100709-DR-303	1.0 UJ	µg/L
								GW-17360-100809-DR-304	1.0 UJ	µg/L
								GW-17360-100809-DR-305	1.0 UJ	µg/L
								GW-17360-100809-DR-306	1.0 UJ	µg/L
								GW-17360-100809-DR-307	1.0 UJ	µg/L
								GW-17360-100809-DR-308	1.0 UJ	µg/L

TABLE 6

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING
 LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
 MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
 GENERAL MOTORS GRAND RAPIDS MFD
 WYOMING, MICHIGAN

Parameter	Analyte	LCS Date	LCS %Rec	LCD %Rec	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						%Rec	RPD			
TCL VOC	Methyl cyclohexane	10/15/09	68	67	0.41	70-130	30	GW-17360-100809-DR-309	1.0 UJ	µg/L
								GW-17360-100809-DR-310	1.0 UJ	µg/L
								TB-17360-100709	1.0 UJ	µg/L
TCL VOC	1,2,4-Trichlorobenzene	10/15/09	55	58	4.5	70-130	30	GW-17360-100709-DR-292	5.0 UJ	µg/L
								GW-17360-100709-DR-293	5.0 UJ	µg/L
								GW-17360-100709-DR-294	5.0 UJ	µg/L
								GW-17360-100709-DR-295	5.0 UJ	µg/L
								GW-17360-100709-DR-296	5.0 UJ	µg/L
								GW-17360-100709-DR-297	5.0 UJ	µg/L
								GW-17360-100709-DR-298	5.0 UJ	µg/L
								GW-17360-100709-DR-299	5.0 UJ	µg/L
								GW-17360-100709-DR-300	5.0 UJ	µg/L
								GW-17360-100709-DR-301	5.0 UJ	µg/L
								GW-17360-100709-DR-302	5.0 UJ	µg/L
								GW-17360-100709-DR-303	5.0 UJ	µg/L
								GW-17360-100809-DR-304	5.0 UJ	µg/L
								GW-17360-100809-DR-305	5.0 UJ	µg/L
								GW-17360-100809-DR-306	5.0 UJ	µg/L
GW-17360-100809-DR-307	5.0 UJ	µg/L								
GW-17360-100809-DR-308	5.0 UJ	µg/L								
GW-17360-100809-DR-309	5.0 UJ	µg/L								
GW-17360-100809-DR-310	5.0 UJ	µg/L								
TB-17360-100709	5.0 UJ	µg/L								
TCL VOC	1,1,2,2-Tetrachloroethane	10/17/09	80	79	0.21	85-118	30	GW-17360-100809-DR-311	1.0 UJ	µg/L
								GW-17360-100809-DR-312	1.0 UJ	µg/L
								GW-17360-100809-DR-313	1.0 UJ	µg/L
								GW-17360-100809-DR-314	1.0 UJ	µg/L
								GW-17360-100809-DR-315	1.0 UJ	µg/L
								GW-17360-100809-DR-316	1.0 UJ	µg/L
								GW-17360-100809-DR-317	1.0 UJ	µg/L
								GW-17360-100809-DR-318	1.0 UJ	µg/L
								GW-17360-100809-DR-319	1.0 UJ	µg/L

TABLE 6

SUMMARY OF QUALIFIED SAMPLE RESULTS DUE TO OUTLYING
 LABORATORY CONTROL SAMPLE / LABORATORY CONTROL SAMPLE DUPLICATE RESULTS
 MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
 GENERAL MOTORS GRAND RAPIDS MFD
 WYOMING, MICHIGAN

Parameter	Analyte	LCS Date	LCS %Rec	LCD %Rec	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						%Rec	RPD			
TCL VOC	1,2,4-Trichlorobenzene	10/17/09	59	59	0.49	70-130	30	GW-17360-100809-DR-311	5.0 UJ	µg/L
								GW-17360-100809-DR-312	5.0 UJ	µg/L
								GW-17360-100809-DR-313	5.0 UJ	µg/L
								GW-17360-100809-DR-314	5.0 UJ	µg/L
								GW-17360-100809-DR-315	5.0 UJ	µg/L
								GW-17360-100809-DR-316	5.0 UJ	µg/L
								GW-17360-100809-DR-317	5.0 UJ	µg/L
								GW-17360-100809-DR-318	5.0 UJ	µg/L
								GW-17360-100809-DR-319	5.0 UJ	µg/L

Notes:

- J - Estimated Concentration
- UJ - Non-detect with an Estimated Report Limit
- LCS - Laboratory Control Spike
- LCD - Laboratory Control Spike Duplicate
- %Rec - Percent Recovery
- RPD - Relative Percent Difference
- TCL - Target Compound List
- VOC - Volatile Organic Compounds

TABLE 7

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO TRIP BLANK CONTAMINATION
 MONITORING WELL AND CULVERT SAMPLING - OCTOBER 2009
 GENERAL MOTORS GRAND RAPIDS MFD
 WYOMING, MICHIGAN

<i>Parameter</i>	<i>Analyte</i>	<i>Blank Date</i>	<i>Blank Result</i>	<i>Associated Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TCL VOC	Acetone	10/07/09	3.1	GW-17360-100709-DR-292	25 U	µg/L

Notes:

U - Qualified as Not Detected at the report limit

TCL - Target Compound List

VOC - Volatile Organic Compounds

ATTACHMENT C
HISTORICAL ANALYTICAL DATA SUMMARIES

LIST OF ENCLOSURES

Floating Oil Summary

Water Levels Summary

Vacuum Summary

Monitoring Well Data Summary / Analytical Data

85-7

86-2

86-3

87-1

87-2

87-4

87-5

87-8

87-9

87-10

87-11

87-13

93-1

X-10

PW Discharge

C-1

C-2

C-3

C-4

MW1-03

MW2-03

MW3-03

MW4-03

MW5-03

MW6-03

MW7-03

MW8-04

MW9-04

MW10-04

MW11D-04

MW11S-05

MW13-04

MW14-04

MW15-04

MW17-06

Field Blank

Trip Blank

TCE Treatment System Influent, Intermediate, and Effluent

Soil Vapor Recovery System Summary 87-3 (Air Well): Influent and Effluent

Soil Vapor Recovery System Summary / Flow Data

General Motors
Grand Rapids Metal Fabrication Plant
FLOATING OIL SUMMARY (In Feet)

Date	85-03	85-05B	85-06	86-01
12/21/88	0.02	none	none	--
02/17/89	0.02	none	none	none
03/16/89	trace	none	none	none
04/20/89	0.01	sheen	none	none
05/18/89	0.01	none	none	none
06/16/89	trace	none	none	none
07/18/89	0.01	none	none	none
08/22/89	0.01	none	none	none
09/22/89	0.01	none	trace	none
10/13/89	0.01	none	none	none
11/17/89	0.03	none	none	none
12/21/89	0.4	none	none	none
01/12/90	2.75	--	none	none
01/19/90	0.25	none	none	none
02/16/90	0.02	none	none	none
03/16/90	0.02	none	none	none
04/12/90	0.01	none	none	none
05/18/90	0.01	none	none	none
06/19/90	none	none	none	none
07/13/90	trace	none	none	none
08/20/90	none	--	none	none
09/14/90	trace	--	none	none
10/12/90	trace	--	none	none
11/15/90	trace	none	none	none
12/18/90	trace	--	none	none
01/15/91	none	--	--	--
02/20/91	none	--	--	--
03/11/91	none	--	none	none
04/18/91	none	--	--	--
05/16/91	none	--	--	--
06/13/91	trace	--	none	none
07/19/91	trace	--	--	--
08/19/91	0.01	--	--	--
09/12/91	0.46	--	none	none
10/16/91 *	0.3	--	--	--
11/15/91	0.19	none	none	none
12/13/91	0.16	none	none	none
01/17/92	0.06	--	--	--
02/14/92	0.47	--	--	--
03/13/92	0.22	--	none	none
04/21/92	0.14	--	--	--
05/15/92	0.14	--	--	--
06/12/92	0.09	--	none	none
07/17/92	0.15	--	--	--
08/13/92	0.16	--	--	--
09/11/92	0.26	--	none	none
10/16/92	0.46	--	--	--
11/12/92	0.34	--	--	--
12/10/92	0.15	none	none	none
01/15/93	0.04	--	--	--
02/12/93	0.08	--	--	--
03/11/93	0.14	--	none	none

-- = Not measured

* = Initiated use of keck interface probe for all product measurements.

General Motors
Grand Rapids Metal Fabrication Plant
FLOATING OIL SUMMARY (In Feet)

Date	85-03	85-05B	85-06	86-01
04/15/93	0.15	--	--	--
05/13/93	0.06	--	--	--
06/14/93	0.12	--	none	none
07/16/93	0.04	--	--	--
08/11/93	0.03	--	--	--
09/15/93	0.17	--	none	none
10/19/93	0.05	--	--	--
11/17/93	0.04	--	--	--
12/17/93	0.37	none	none	none
01/13/94	0.47	--	--	--
02/15/94	0.89	--	--	--
03/16/94	0.19	--	none	none
04/13/94	0.01	--	--	--
05/12/94	0.11	--	--	--
06/14/94	0.16	--	none	none
07/13/94	0.04	--	--	--
08/12/94	0.02	--	--	--
09/14/94	0.07	--	none	none
10/18/94	0.09	--	--	--
11/11/94	none	--	--	--
12/16/94	0.09	none	none	none
01/13/95	0.26	--	--	--
02/14/95	0.02	--	--	--
03/17/95	0.14	--	none	none
04/13/95	0.21	--	--	--
05/15/95	none	--	--	--
06/20/95	none	--	none	none
07/13/95	none	--	--	--
08/11/95	0.14	--	--	--
09/14/95	0.23	--	none	none
10/17/95	0.59	--	--	--
11/17/95	0.08	--	--	--
12/18/95	none	none	none	none
01/06/96	0.33	--	--	--
02/19/96	0.72	--	--	--
03/19/96	0.89	--	none	none
04/12/96	0.72	--	--	--
05/16/96	0.01	--	--	--
06/13/96	none	--	none	none
07/16/96	none	--	--	--
08/16/96	0.01	--	--	--
09/13/96	none	--	none	none
10/17/96	0.19	--	--	--
11/19/96	0.30	--	--	--
12/12/96	0.68	0.01	none	none
01/20/97	0.39	--	--	--
02/14/97	none	--	--	--
03/13/97	none	--	none	none
04/18/97	none	--	--	--
05/15/97	none	--	--	--
06/19/97	none	--	none	none

-- = Not measured

General Motors
Grand Rapids Metal Fabrication Plant
FLOATING OIL SUMMARY (In Feet)

Date	85-03	85-05B	85-06	86-01
07/17/97	none	--	--	--
08/14/97	none	--	--	--
09/11/97	0.05	--	none	none
10/17/97	0.15	--	--	--
11/14/97	0.24	--	--	--
12/16/97	0.93	none	none	none
01/14/98	0.53	--	--	--
02/16/98	0.04	--	--	--
03/12/98	0.02	--	none	none
04/22/98	none	--	--	--
05/20/98	0.38	--	--	--
06/16/98	0.51	--	none	none
07/16/98	none	--	--	--
08/19/98	0.51	--	--	--
09/17/98	0.78	--	none	none
10/14/98	0.77	--	--	--
11/18/98	0.84	--	--	--
12/16/98	0.96	0.02	none	none
01/12/99	0.96	--	--	--
02/16/99	0.05	--	--	--
03/10/99	0.09	--	none	none
04/12/99	0.12	--	--	--
05/18/99	none	--	--	--
06/15/99	none	--	none	none
07/21/99	none	--	--	--
08/17/99	0.02	--	--	--
09/20/99	0.15	--	none	none
10/19/99	0.52	--	--	--
11/17/99	0.45	--	--	--
12/16/99	0.47	0.03	none	none
01/11/00	0.49	--	--	--
02/15/00	0.55	--	--	--
03/16/00	0.38	--	none	none
04/19/00	0.35	--	--	--
05/15/00	none	--	--	--
06/13/00	none	--	none	none
07/25/00	none	--	--	--
08/23/00	none	--	--	--
09/22/00	0.02	--	none	none
10/23/00	none	--	--	--
11/16/00	0.02	--	--	--
12/20/00	none	0.04	none	none
01/18/01	none	--	--	--
02/21/01	none	--	--	--
03/21/01	none	--	none	none

-- = *Not measured*

General Motors
Grand Rapids Metal Fabrication Plant
FLOATING OIL SUMMARY (In Feet)

Date	85-03	85-05B	85-06	86-01
04/17/01	none	--	--	--
05/15/01	none	--	--	--
06/13/01	none	--	none	none
07/16/01	none	--	--	--
08/22/01	none	--	--	--
09/13/01	none	--	none	none
10/09/01	none	--	--	--
11/13/01	none	--	--	--
12/19/01	none	0.03	none	none
03/21/03	0.06	none	none	none
07/15/03	0.25	none	none	--
10/07/03	none	none	none	none
12/17/03	none	none	none	none
03/15/04	none	none	none	none
10/04/04	0.12	none	none	none
12/03/04	0.10	none	none	none
04/06/05	none	none	none	none
12/02/05	none	none	none	none
09/11/06	--	none	none	none
05/09/07	none	none	none	none
10/15/07	0.02	none	none	none
04/23/08	none	none	none	none
10/08/08	none	none	none	none
04/06/08	none	none	none	none

-- = Not measured

**General Motors
Grand Rapids Metal Fabrication Plant
WATER LEVELS (In Feet)
SUMMARY**

Start date:	12/21/1988	1/18/1989	2/17/1989	3/16/1989	4/20/1989	5/18/1989	6/16/1989	7/18/1989	8/22/1989	9/20/1989	10/13/1989	10/20/1989	11/17/1989	12/21/1989	1/12/1990
End date:	12/21/1988	1/20/1989	2/18/1989	3/17/1989	4/20/1989	5/18/1989	6/19/1989	7/18/1989	8/22/1989	9/20/1989	10/13/1989	10/20/1989	11/17/1989	12/21/1989	1/12/1990
85-1	660.08	660.01	Under water	659.85	659.80	659.76	659.93	659.86	Under water	659.91	659.60	Under water	659.66	659.53	659.42
85-2	658.54	658.47	658.34	658.37	658.30	658.35	658.42	658.45	658.84	658.47	658.27	658.39	658.37	658.14	658.10
85-3	661.23	661.06	660.58	660.43	660.68	660.55	660.78	660.74	660.63	660.58	660.11	660.11	659.55	659.22	659.33
85-5B	661.23	661.01	660.63	660.49	660.67	660.60	660.82	660.75	660.67	660.59	No access	No access	659.87	660.22	No access
85-6	661.80	661.59	661.14	661.12	661.38	661.25	661.57	661.37	661.28	661.14	660.71	660.69	660.42	660.87	660.44
85-7	659.04	658.95	658.77	658.73	658.65	658.73	658.83	658.86	659.02	658.88	658.62	658.73	658.39	658.41	658.34
86-1	Can't open	660.14	659.83	659.70	659.76	660.28	660.12	659.98	659.97	659.90	659.49	659.52	659.28	659.39	659.18
86-2	659.78	659.77	659.51	Pumping	659.70	659.76	660.28	660.12	659.98	659.90	659.49	659.52	659.28	659.39	659.18
86-3	658.26	658.17	658.00	658.00	657.81	657.93	658.13	658.07	658.22	658.01	657.86	657.99	657.76	656.60	657.45
87-1	659.74	659.66	659.43	659.40	659.43	659.43	659.51	659.50	659.53	659.43	659.20	659.30	659.10	659.17	658.97
87-2	660.84	660.48	660.29	660.31	660.48	660.41	660.44	660.33	660.34	660.27	660.05	660.11	659.96	660.14	659.84
87-4	659.88	659.66	659.42	659.40	659.37	659.38	659.47	659.46	659.51	659.43	659.19	659.29	659.17	659.11	658.98
87-5	659.48	659.56	659.36	659.33	659.30	659.33	659.33	659.44	659.45	659.30	658.86	659.25	659.14	659.07	658.95
87-8	658.42	658.33	658.10	658.10	657.92	658.07	658.24	658.24	658.24	658.30	658.99	658.10	658.90	657.75	657.66
87-9	658.13	658.06	661.43	657.93	657.75	657.86	657.97	658.00	658.23	658.00	658.99	657.92	657.75	657.55	657.49
87-10	656.65	656.51	656.19	656.19	656.03	656.32	656.56	656.31	656.56	656.63	656.45	656.63	656.41	656.11	656.07
87-11	656.24	656.19	656.88	655.60	655.82	656.07	656.18	656.19	657.09	656.30	656.88	656.40	656.19	655.61	655.87
87-13	654.07	654.02	653.95	653.99	653.80	653.85	654.25	654.26	656.10	654.79	654.85	654.89	654.04	653.81	653.78
88-1	658.31	Broken	Broken	Broken	Broken	Broken	656.03	656.26	656.38	656.54	656.41	656.64	656.52	656.10	656.08
88-2	655.03	654.92	654.89	655.07	654.50	654.99	654.98	654.92	656.04	655.37	655.43	655.46	656.23	654.80	654.69
88-3	654.29	654.23	654.16	654.27	654.94	654.08	654.45	654.48	654.64	654.97	655.00	655.24	654.54	653.27	654.01
88-4	654.29	654.23	654.16	654.27	654.94	654.08	654.45	654.48	654.64	654.97	655.00	655.24	654.54	653.27	654.01
93-1	Can't find	653.19	653.14	653.27	653.01	653.00	653.54	653.54	654.85	654.04	654.06	654.28	653.63	652.69	652.63
MW1-03															
MW2-03															
MW3-03															
MW4-03															
MW5-03															
MW6-03															
MW7-03															
MW8-04															
MW9-04															
MW10-04															
MW11-04															
MW15-05															
MW13-04															
MW14-04															
MW15-04															
MW17-06															
C-1	657.75	658.04	657.46	Caught gone	657.64	657.66	657.66	657.87	657.63	Debris	657.87	657.87	657.87	657.87	657.82
C-2	655.38	654.58	650.84	649.79	651.38	651.37	Debris	657.88	657.78	657.70	Debris	657.87	657.80	657.69	657.83
C-4			656.92	Caught gone	657.68	657.66	657.74	657.88	659.17	659.08	658.75	658.88	658.73	658.64	658.54
X-10							659.11	659.03	659.74	Pumping	657.26	657.49	653.84	653.05	652.79
PW-DISCH															

-- = Not measured.
 * = Not installed.
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 **** = Well no longer exists.
 Note: Additional monthly groundwater elevations are available in the database.

General Motors
Grand Rapids Metal Fabrication Plant
WATER LEVELS (In Feet)
SUMMARY

Start date:	2/16/1990	3/16/1990	4/12/1990	5/18/1990	6/18/1990	7/13/1990	8/20/1990	9/14/1990	10/12/1990	11/15/1990	12/17/1990	3/11/1991	6/13/1991	9/12/1991	12/13/1991
End date:	2/16/1990	3/16/1990	4/12/1990	5/18/1990	6/18/1990	7/13/1990	8/20/1990	9/14/1990	10/12/1990	11/15/1990	12/18/1990	3/12/1991	6/13/1991	9/12/1991	12/13/1991
85-1	Under water	659.65	Under water	659.87	659.81 recs flush mt	658.65	Can't open	Can't open	Can't open	660.13	660.15	659.90	659.90	659.89	660.02
85-2	658.17	658.29	658.27	658.54	658.43	658.65	658.46	658.75	658.65	658.64	659.06	658.41	658.50	658.51	658.67
85-3	659.06	660.21	660.17	660.78	660.83	660.67	660.61	660.45	660.71	661.45	661.46	660.6	661.01	659.81	661.11
85-4	660.62	661.00	661.13	661.46	660.89	660.87	No access	No access	No access	661.45	No access	--	--	--	660.18
85-6	658.42	658.35	658.57	658.84	658.76	658.66	658.85	658.71	658.91	659.07	659.07	658.71	658.88	660.80	661.56
86-1	659.34	659.35	659.69	660.01	660.01	659.81	659.83	659.69	659.95	660.49	660.54	659.67	660.00	659.54	659.07
86-2	657.59	657.76	Not running	657.92	657.84	657.76	657.84	657.92	658.01	658.01	658.26	657.92	657.84	657.84	660.27
86-3	657.52	657.63	657.65	657.92	657.83	657.73	657.83	657.73	658.01	658.11	658.11	657.84	657.99	657.91	658.22
87-1	659.04	659.22	659.24	659.46	659.45	659.35	659.35	659.51	659.63	659.83	659.89	659.36	659.56	659.38	659.59
87-2	659.88	659.21	660.06	660.27	660.27	660.20	660.56	660.49	660.65	660.77	660.90	660.24	660.51	660.31	660.48
87-4	659.06	659.21	659.23	659.47	659.41	659.31	659.49	659.42	659.61	659.75	659.79	659.38	659.56	659.45	659.63
87-5	659.01	659.16	659.21	659.46	659.38	659.30	659.42	659.35	659.54	659.74	659.77	659.34	659.51	659.37	659.61
87-8	657.75	657.88	657.91	658.20	658.12	658.00	658.08	657.98	658.24	658.57	658.58	658.06	658.26	658.11	658.49
87-9	657.56	657.75	657.69	657.95	657.85	657.75	657.85	657.02	658.05	658.10	658.11	658.06	657.98	657.98	658.19
87-10	656.16	656.36	656.30	656.54	656.42	656.32	656.42	656.33	656.65	656.70	656.69	656.43	656.53	656.50	656.84
87-11	655.95	656.12	656.03	656.94	656.11	656.04	656.14	656.06	656.33	656.31	656.29	656.12	656.21	656.21	656.38
88-1	653.90	653.98	653.89	654.04	653.91	653.93	654.00	654.02	654.10	654.12	654.08	653.98	654.04	654.10	654.22
88-2	656.15	656.29	656.23	656.49	656.30	656.24	656.39	656.26	656.67	656.35	656.35	655.00	654.82	655.06	655.60
88-3	654.67	654.83	654.80	655.12	654.97	654.98	655.04	654.91	657.43	655.14	655.26	655.00	654.82	655.06	655.60
88-4	654.10	654.24	654.16	654.43	654.18	654.17	654.39	654.24	654.80	654.45	654.36	654.25	654.52	654.52	654.62
93-1	653.06	653.21	653.13	653.44	653.16	653.20	653.49	653.29	653.78	653.40	653.36	653.29	653.34	653.51	653.75
MW1-03															
MW2-03															
MW3-03															
MW4-03															
MW5-03															
MW6-03															
MW7-03															
MW8-04															
MW9-04															
MW10-04															
MW11D-04															
MW11S-05															
MW13-04															
MW14-04															
MW15-04															
MW17-06															
C-1	657.91	657.83	657.81	657.85	657.88	657.86	657.83	657.80	657.83	657.83	657.84	657.85	657.78	657.72	657.99
C-2	657.90	657.80	657.82	657.84	657.89	657.85	657.80	657.83	657.82	657.84	657.85	657.85	657.76	657.62	651.54
C-4	658.63	658.74	658.78	659.07	658.98	658.87	659.00	658.92	659.13	659.28	659.31	658.92	659.10	659.00	659.24
X-10	652.20	652.00	651.69	652.31	651.47	651.24	650.88	650.50	651.03	650.67	650.12	649.06	648.24	647.27	647.39
PW-DISCH															

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Note: Additional monthly groundwater elevations are available in the database.

**General Motors
Grand Rapids Metal Fabrication Plant
WATER LEVELS (in Feet)
SUMMARY**

Start date:	3/13/1992	6/12/1992	9/11/1992	12/10/1992	3/11/1993	6/14/1993	9/15/1993	12/17/1993	3/15/1994	6/14/1994	9/14/1994	12/16/1994	3/17/1995	6/20/1995	9/14/1995	12/18/1995
End date:	3/13/1992	6/12/1992	9/11/1992	12/10/1992	3/11/1993	6/15/1993	9/15/1993	12/17/1993	3/16/1994	6/14/1994	9/14/1994	12/16/1994	3/17/1995	6/20/1995	9/14/1995	12/18/1995
85-1	659.60	659.77	659.68	659.51	659.50	659.89	659.71	659.46	659.54	659.52	659.70	659.44	659.37	659.60	659.48	659.38
85-2	658.30	658.37	658.47	658.22	658.22	658.64	658.47	658.16	658.24	658.24	658.30	658.16	658.16	658.28	658.16	658.12
85-3	660.06	660.51	659.96	659.92	660.05	660.72	659.86	659.58	660.09	659.85	660.33	659.81	659.68	660.53	659.65	659.90
85-5B	-	-	-	660.10	-	-	-	659.94	-	-	-	659.95	-	-	-	659.92
85-6	660.79	661.08	660.78	660.62	660.75	661.43	660.56	660.44	660.80	660.54	659.12	660.45	660.37	661.11	660.48	660.46
85-7	658.59	658.85	658.64	658.48	658.47	658.81	658.65	658.48	658.49	658.46	658.62	658.41	658.34	658.57	658.36	658.32
86-1	659.41	659.72	659.41	659.17	659.26	659.81	659.30	659.11	659.37	659.16	661.34	659.09	658.98	659.52	659.05	659.06
86-2	658.90	658.99	658.81	658.83	658.81	659.13	658.96	658.71	658.91	658.89	659.35	658.89	658.76	659.14	659.18	658.79
86-3	657.74	660.12	657.76	657.60	657.60	657.93	Susp data	657.52	657.66	657.58	657.69	657.69	657.57	657.69	657.52	657.47
87-1	659.17	659.37	659.26	659.16	659.13	659.45	659.11	659.01	659.10	659.03	659.30	659.02	658.93	659.25	659.02	658.99
87-2	660.10	660.21	660.28	660.09	660.13	660.43	659.99	659.96	660.01	660.01	660.27	659.96	660.25	660.04	660.04	659.95
87-3	659.21	659.28	659.14	659.12	659.12	659.43	659.23	659.03	659.13	659.08	659.33	659.04	658.95	659.21	659.04	658.99
87-4	659.17	659.37	659.23	659.07	659.05	659.38	659.18	658.98	659.12	659.03	659.27	659.04	658.99	659.17	658.97	658.95
87-5	657.96	658.22	657.98	657.81	658.15	658.15	657.75	657.75	657.92	657.77	657.95	657.74	657.62	657.92	657.72	657.64
87-6	657.75	658.02	657.77	657.63	657.62	657.99	Susp data	658.60	657.71	657.66	657.71	656.09	657.48	657.70	657.54	657.49
87-7	656.36	656.49	656.35	656.21	656.24	656.35	656.48	656.21	656.31	656.24	656.24	656.21	656.09	656.26	656.04	656.03
87-10	656.06	656.17	656.10	655.99	656.04	656.22	656.21	655.93	656.04	656.04	655.97	655.92	655.87	656.00	655.85	655.83
87-11	654.01	653.99	653.95	653.88	653.94	654.05	653.99	653.76	653.90	653.84	653.78	653.73	653.71	653.70	653.59	653.56
88-1	655.26	655.00	655.16	655.08	655.04	655.12	655.20	654.66	654.86	654.82	654.66	654.59	654.57	654.61	654.48	654.50
88-2	654.27	654.20	654.31	654.11	654.12	654.47	654.54	654.00	654.13	654.13	653.99	653.94	653.88	653.94	653.78	653.80
88-3	653.45	653.21	653.23	653.11	653.29	653.44	653.34	652.98	653.21	653.03	652.89	652.87	652.88	652.89	652.76	652.76
88-4	-	-	-	-	-	-	652.28	653.13	653.17	653.18	653.11	653.12	653.03	653.10	653.17	653.01
93-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW1-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW2-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW3-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW4-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW5-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW6-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW7-03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW8-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW9-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW10-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW11D-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW11S-05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW13-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW14-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW15-04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW17-06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C-1	657.90	657.81	657.84	657.84	657.99	657.77	657.74	657.81	657.88	657.84	657.79	657.92	657.74	657.74	Debris	Debris
C-2	651.77	651.47	651.94	651.94	652.12	651.73	**	**	651.86	651.86	649.07	649.82	649.22	649.07	649.17	649.02
C-4	657.84	657.65	657.83	657.85	657.87	657.70	657.73	657.80	657.83	657.75	657.75	657.86	657.73	657.75	657.65	657.58
X-10	658.79	659.00	658.74	658.69	658.66	659.01	658.82	658.60	658.72	658.67	658.82	658.62	658.52	658.69	658.57	658.55
PW-DISCH	645.15	648.13	644.56	644.75	644.56	643.97	642.87	642.33	642.25	641.17	653.00	655.19	654.43	654.57	654.17	653.89

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 **** = Well no longer exists.
 Note: Additional monthly groundwater elevations are available in the database.

General Motors Grand Rapids Metal Fabrication Plant WATER LEVELS (In Feet) SUMMARY

Start date:	3/19/1996	6/13/1996	9/13/1996	12/13/1996	3/13/1997	6/19/1997	9/11/1997	12/16/1997	3/13/1998	6/16/1998	9/17/1998	12/16/1998	3/10/1999	6/15/1999	9/20/1999	12/16/1999	3/16/2000	6/13/2000	9/22/2000	12/20/2000	3/21/2001	
End date:	3/19/1996	6/13/1996	9/13/1996	12/13/1996	3/13/1997	6/19/1997	9/11/1997	12/16/1997	3/13/1998	6/16/1998	9/17/1998	12/16/1998	3/10/1999	6/15/1999	9/20/1999	12/16/1999	3/16/2000	6/13/2000	9/22/2000	12/20/2000	3/21/2001	
85-1	659.15	659.67	659.38	659.18	659.64	659.45	659.13	659.06	Under i/c	658.86	658.86	659.11	659.90	659.20	659.46	659.30	659.01	658.79	659.70	659.40	659.38	659.74
85-2	657.99	658.39	658.13	657.96	658.51	658.14	658.07	657.92	658.05	657.73	657.73	657.96	657.86	658.19	658.32	658.04	657.99	658.22	658.62	658.22	658.20	658.54
85-3	658.61	660.90	660.17	658.78	661.16	660.24	659.77	658.42	659.73	658.44	658.44	658.38	658.06	659.30	660.47	659.26	658.61	658.60	660.71	659.78	659.99	660.48
85-5B	660.05	661.45	660.08	660.08	661.66	660.79	660.44	659.94	660.29	659.73	659.73	659.93	659.46	660.11	661.69	659.97	659.64	659.51	661.22	660.31	660.45	660.99
85-7	658.13	658.69	658.33	658.13	658.72	658.39	658.27	658.06	658.23	657.65	657.65	658.12	658.09	658.20	658.46	658.21	658.85	658.40	661.22	658.30	658.41	658.79
86-1	658.67	659.83	659.15	658.65	660.01	659.29	658.96	658.53	658.91	658.11	658.03	658.60	658.26	659.69	659.33	658.69	658.36	658.24	659.80	659.04	659.17	659.56
86-2	658.55	659.72	658.84	658.66	659.21	658.97	658.86	658.51	658.76	658.03	658.63	659.40	658.83	659.40	659.24	658.67	658.25	658.10	658.24	658.28	659.17	659.88
86-3	657.32	657.80	657.55	657.27	657.93	657.58	657.40	657.21	657.40	656.91	656.91	657.29	657.13	657.37	657.38	657.32	657.23	657.09	657.90	657.55	657.55	657.93
87-1	658.73	659.34	659.00	658.77	659.45	659.08	658.93	658.82	658.82	657.55	657.55	658.43	658.32	658.80	659.00	658.75	658.35	658.35	659.26	658.98	658.97	659.46
87-2	659.63	660.25	659.98	659.71	660.26	660.07	659.91	659.56	659.68	659.39	659.62	659.08	659.62	659.79	659.48	659.14	660.02	658.86	660.02	659.86	659.87	660.48
87-4	658.73	659.29	659.01	658.79	659.33	659.07	658.93	658.69	658.50	658.74	658.50	658.16	658.50	658.83	658.99	658.75	658.56	658.36	659.26	658.99	659.01	659.36
87-5	658.68	659.28	658.96	658.75	659.31	659.00	658.89	659.63	658.81	657.91	658.69	658.45	658.15	658.77	658.94	658.70	658.53	658.34	659.27	658.93	658.93	659.32
87-8	657.47	658.05	657.76	657.44	658.21	657.78	657.36	657.35	657.55	657.15	657.15	657.35	657.53	657.53	657.76	657.76	657.35	657.21	658.17	657.73	657.76	658.10
87-9	657.31	657.81	657.56	657.33	657.84	657.60	657.43	657.26	657.45	657.10	657.10	657.22	657.11	657.60	657.38	657.38	657.38	657.18	658.04	657.40	657.61	657.84
87-10	655.88	656.32	656.00	655.84	656.52	656.08	655.76	655.76	655.96	655.90	655.85	655.72	655.92	655.92	655.92	655.78	655.78	655.78	656.67	656.14	656.18	656.37
87-11	655.71	656.01	655.81	655.70	656.15	655.76	655.72	655.62	655.76	655.71	655.69	655.60	655.60	655.79	656.40	656.05	656.05	656.05	656.05	656.08	656.08	656.19
87-13	653.55	653.66	653.45	653.43	653.73	653.49	653.42	653.42	653.52	653.47	653.41	653.30	653.32	653.32	653.62	653.37	653.74	653.61	653.96	653.57	653.55	653.74
88-1	654.80	654.66	654.38	654.40	654.67	654.45	654.46	654.31	654.50	654.44	654.38	654.25	654.42	654.42	654.62	654.51	654.64	654.46	655.20	654.61	654.61	654.66
88-2	653.70	653.91	653.68	653.70	653.98	653.72	653.70	652.61	653.86	654.05	654.00	654.00	654.06	654.06	654.13	654.13	654.14	654.83	654.22	654.10	654.18	654.82
88-3	652.67	653.30	652.67	652.67	652.95	652.74	652.70	652.61	652.84	652.75	652.68	652.68	652.79	652.79	652.91	652.94	653.17	652.93	653.60	652.93	652.90	652.85
93-1	654.90	655.07	654.89	654.83	655.13	654.82	654.79	654.79	654.82	654.80	654.80	654.80	654.82	654.72	655.06	654.94	655.15	655.93	655.36	655.04	655.09	655.18
MW1-03																						
MW2-03																						
MW3-03																						
MW4-03																						
MW5-03																						
MW6-03																						
MW7-03																						
MW8-04																						
MW9-04																						
MW10-04																						
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MW12-04																						
MW13-04																						
MW14-04																						
MW15-04																						
MW17-06																						
C-1	Debris	657.50	657.39	657.46	657.46	657.60	657.64	Debris	657.65	657.58	657.64	657.57	657.62	657.63	Debris	657.76	657.76	Debris	657.70	Debris	657.82	
C-2	649.02	649.17	649.02	649.01	649.39	649.10	649.10	649.10	650.14	649.31	649.02	650.08	650.32	650.90	650.54	650.90	650.81	650.50	650.59	650.50	650.42	649.17
C-4	657.63	657.77	657.43	657.37	657.44	657.61	657.61	657.69	657.61	657.57	657.35	657.55	657.67	660.62	657.72	657.72	657.72	657.72	657.75	657.75	657.75	657.77
X-10	658.33	658.92	658.61	658.37	659.94	658.60	660.49	#	657.61	657.57	657.57	657.55	657.67	660.62	657.72	657.72	657.72	657.75	657.75	657.75	657.75	657.77
PW-D/ISCH	653.81	652.87	653.34	653.02	653.54	653.04	652.52	652.43	652.65	651.82	652.01	651.85	651.64	651.46	651.37	651.07	651.15	651.39	651.39	651.15	650.73	651.22

-- = Not measured.
 * = Not installed.
 *** = City of Wyoming cleared culvert
 **** = Well no longer exists.
 Note: Additional monthly groundwater elevations are available in the database.

General Motors
Grand Rapids Metal Fabrication Plant
WATER LEVELS (in Feet)
SUMMARY

Start date:	6/13/2001	9/13/2001	12/19/2001	3/28/2002	6/26/2002	9/26/2002	12/9/2002	3/28/2003	7/14/2003	9/29/2003	12/17/2003	3/15/2003	10/4/2004	11/30/2004	4/4/2005	6/27/2005	12/27/2005	9/13/2006	5/12/2007	10/15/2007	4/23/2008	10/9/2008	4/9/2009	10/4/2009
End date:	6/13/2001	9/13/2001	12/19/2001	3/28/2002	6/26/2002	9/26/2002	12/9/2002	3/28/2003	7/14/2003	9/29/2003	12/17/2003	3/15/2003	10/4/2004	11/30/2004	4/4/2005	6/27/2005	12/27/2005	9/13/2006	5/12/2007	10/15/2007	4/23/2008	10/9/2008	4/9/2009	10/4/2009
85-1	659.91	659.83	659.76	660.17	660.10	659.99	659.96	659.28	658.87	658.63	658.63	659.17	658.89	658.98	659.25	659.18	658.85	661.35	660.03	659.15	659.57	659.67	659.66	659.66
85-2	658.61	658.48	658.44	658.83	658.80	658.66	658.49	657.35	657.75	657.57	658.24	658.24	657.81	657.91	657.99	657.90	657.76	661.23	658.63	657.95	658.23	658.33	658.34	658.34
85-3	661.17	660.45	660.54	661.15	660.92	660.80	660.07	658.91	659.31	659.37	660.18	660.31	659.11	659.26	660.21	660.10	659.21	660.16	661.66	659.61	661.02	661.02	661.11	661.15
85-5B	661.75	661.04	661.08	661.95	661.88	661.24	661.34	660.07	659.94	659.94	659.94	660.57	659.73	659.97	660.67	660.66	660.66	660.77	662.01	662.01	661.59	661.52	661.65	661.65
85-6	658.97	658.77	658.68	658.93	658.83	658.62	658.44	658.27	657.72	657.72	657.72	657.82	657.50	657.67	658.02	657.93	657.63	658.01	658.70	657.86	658.36	658.45	658.48	658.48
86-1	660.20	659.65	659.60	660.26	660.04	660.07	659.97	658.50	658.18	658.18	658.18	659.21	658.32	658.49	659.19	658.75	658.99	660.35	658.99	658.99	659.88	659.88	660.01	660.01
86-2	658.06	657.87	657.80	658.33	658.18	658.06	657.97	657.97	656.85	656.69	657.46	657.01	657.32	657.42	657.42	657.09	657.09	660.73	657.90	657.90	657.72	658.08	657.90	657.90
86-3	659.59	659.41	659.36	659.60	659.53	659.67	659.05	658.68	658.56	658.56	659.62	658.71	658.57	658.71	659.06	659.02	658.94	662.16	659.96	658.91	659.53	659.62	659.62	659.62
87-1	660.48	660.44	660.24	660.52	660.36	660.41	659.96	658.46	658.46	658.46	659.28	659.21	659.43	659.43	659.92	659.88	659.81	670.39	660.87	659.81	660.41	660.35	660.35	660.35
87-4	659.58	659.39	659.35	659.32	659.10	659.16	658.92	658.49	658.38	658.42	658.68	658.91	658.71	658.71	659.05	658.94	658.56	660.22	660.02	658.90	659.56	659.68	659.68	659.68
87-5	657.54	657.54	659.31	659.33	659.10	658.91	658.82	658.72	658.40	658.15	658.53	658.60	658.37	658.37	658.87	658.78	658.49	658.52	658.70	658.70	659.23	659.37	659.37	659.37
87-8	658.33	658.08	658.01	658.46	658.30	658.05	657.75	657.62	656.49	656.88	657.76	658.30	656.96	656.96	657.68	657.54	657.28	653.88	658.16	657.16	657.88	657.96	658.05	658.05
87-9	656.68	656.58	656.51	657.18	657.03	656.84	656.74	656.69	656.57	655.48	655.66	655.53	655.53	655.81	656.81	656.02	655.54	654.16	657.80	657.80	657.64	657.81	657.73	657.73
87-10	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37
87-11	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37	656.37
87-12	653.69	653.76	653.69	653.47	653.48	653.47	653.69	653.48	652.81	652.75	652.79	652.83	652.68	653.37	653.70	652.85	652.41	653.14	653.08	652.83	653.12	653.35	653.19	653.19
88-1	654.80	654.79	654.69	655.07	654.93	654.79	654.79	654.54	654.54	653.76	653.76	653.99	653.72	654.54	654.40	653.87	653.87	650.15	651.10	653.85	654.15	654.4	654.26	654.26
88-2	654.31	654.32	654.20	654.22	654.12	654.03	653.95	654.04	653.04	653.04	653.12	653.27	652.99	654.12	653.96	653.16	653.16	652.85	653.38	653.13	653.43	653.65	653.49	653.49
88-4	653.01	652.96	652.87	652.93	652.88	652.72	652.61	652.72	651.20	652.25	652.25	652.55	652.21	653.06	653.34	652.38	652.57	650.13	652.63	652.15	652.6	652.84	652.82	652.82
89-1	655.30	655.20	655.28	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46	655.46
MW1-03																								
MW2-03																								
MW3-03																								
MW4-03																								
MW5-03																								
MW6-03																								
MW7-03																								
MW8-04																								
MW9-04																								
MW10-04																								
MW11-04																								
MW12-04																								
MW13-05																								
MW15-04																								
MW16-04																								
MW17-06																								
C-1	657.80	657.70	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42	658.42
C-2	649.10	649.09	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72	649.72
C-4	657.79	657.73	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18	658.18
X-10	651.43	650.64	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96
PW-DISCH	651.43	650.64	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96	649.96

* - vert of debris, but broke the concrete elevation reference point.
water elevations are available in the database.

**General Motors
Grand Rapids Metal Fabrication Plants
VACUUM SUMMARY
(Pressure in Inches)**

Date: 4/20/1989 5/18/1989 6/16/1989 7/18/1989 8/22/1989 9/20/1989 10/13/1989 10/20/1989 11/17/1989 12/21/1989 1/12/1990 2/16/1990 3/16/1990

<u>Site</u>	4/20/1989	5/18/1989	6/16/1989	7/18/1989	8/22/1989	9/20/1989	10/13/1989	10/20/1989	11/17/1989	12/21/1989	1/12/1990	2/16/1990	3/16/1990
87-3	75.00	76.00	76.00	75.00	75.00	77.00	76.00	75.00	75.00	76.00	76.00	76.00	76.00
P1	0.28	0.30	0.30	0.30	0.31	0.32	0.31	0.26	0.27	0.29	0.29	0.30	0.29
P3	0.42	0.44	0.44	0.46	0.44	0.46	0.45	0.43	0.45	0.42	0.44	0.46	0.44
P4	0.63	0.67	0.67	0.65	0.68	0.68	0.69	0.62	0.62	0.66	0.65	0.67	0.62
P5	0.26	0.28	0.29	0.29	0.30	0.30	0.29	0.25	0.25	0.26	0.26	0.26	0.29

Date: 4/12/1990 5/18/1990 6/19/1990 7/13/1990 8/20/1990 9/14/1990 10/12/1990 11/15/1990 12/18/1990 3/11/1991 4/18/1991 5/16/1991 6/13/1991

<u>Site</u>	4/12/1990	5/18/1990	6/19/1990	7/13/1990	8/20/1990	9/14/1990	10/12/1990	11/15/1990	12/18/1990	3/11/1991	4/18/1991	5/16/1991	6/13/1991
87-3	76.00	77.00	77.00	77.00	76.00	76.00	76.00	78.00	75.00	77.00	77.00	78.00	80.00
P1	0.28	0.30	0.29	0.31	0.30	0.26	0.28	0.30	0.18	0.25	0.28	0.31	0.31
P3	0.44	0.46	0.46	0.47	0.49	0.45	0.43	0.47	0.36	0.42	0.46	0.48	0.49
P4	0.63	0.68	0.65	0.69	0.68	0.61	0.64	0.67	0.56	0.62	0.64	0.68	0.68
P5	0.25	0.27	0.26	0.29	0.29	0.24	0.25	0.28	0.17	0.26	0.26	0.28	0.28

**General Motors
Grand Rapids Metal Fabrication Plants
VACUUM SUMMARY
(Pressure in Inches)**

Date:	7/19/1991	8/19/1991	9/12/1991	10/16/1991	11/15/1991	12/13/1991	1/17/1992	2/14/1992	3/13/1992	4/21/1992	5/15/1992	6/12/1992	7/17/1992	8/13/1992
<u>Site</u>														
87-3	79.00	80.00	80.00	80.00	79.00	80.00	79.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00
P1	0.33	0.32	0.29	0.30	0.30	0.29	0.33	0.36	0.33	0.42	0.36	0.36	0.36	0.37
P3	0.50	0.48	0.49	0.45	0.48	0.48	0.45	0.46	0.45	0.50	0.47	0.48	0.58	0.48
P4	0.70	0.68	0.66	0.68	0.67	0.65	0.62	0.66	0.63	0.73	0.66	0.67	0.68	0.68
P5	0.30	0.28	0.27	0.26	0.27	0.26	0.25	0.26	0.25	0.31	0.27	0.28	0.28	0.28

Date:	9/11/1992	10/16/1992	11/12/1992	12/10/1992	1/15/1993	2/12/1993	3/11/1993	4/15/1993	5/13/1993	6/14/1993	7/16/1993	8/11/1993	9/15/1993	10/19/1993
<u>Site</u>														
87-3	78.00	80.00	75.00	85.00	83.00	85.00	86.00	86.00	85.00	86.00	88.00	88.00	90.00	85.00
P1	0.38	0.37	0.26	0.23	0.34	0.22	0.36	0.30	0.36	0.37	0.38	0.40	0.40	0.35
P3	0.46	0.47	0.38	0.45	0.46	0.44	0.48	0.44	0.50	0.51	0.50	0.50	0.54	0.48
P4	0.69	0.68	0.53	0.65	0.63	0.61	0.68	0.59	0.67	0.68	0.69	0.73	0.73	0.66
P5	0.28	0.24	0.18	0.24	0.25	0.23	0.26	0.19	0.26	0.29	0.28	0.30	0.31	0.25

**General Motors
Grand Rapids Metal Fabrication Plants
VACUUM SUMMARY
(Pressure in Inches)**

Date: ##### 12/17/1993 1/13/1994 2/15/1994 3/16/1994 4/13/1994 5/12/1994 6/14/1994 7/13/1994 8/12/1994 9/14/1994 10/18/1994 11/11/1994 12/16/1994

<u>Site</u>	89.00	88.00	88.00	86.00	85.00	90.00	90.00	90.00	88.00	89.00	90.00	90.00	85.00
87-3	0.36	0.34	0.36	0.36	0.38	0.39	0.39	0.40	0.40	0.40	0.40	0.40	0.35
P1	0.48	0.46	0.49	0.48	0.50	0.51	0.53	0.51	0.52	0.50	0.51	0.52	0.48
P3	0.68	0.65	0.68	0.68	0.70	0.71	0.71	0.72	0.73	0.72	0.72	0.73	0.66
P4	0.26	0.25	0.26	0.26	0.27	0.30	0.30	0.31	0.31	0.31	0.31	0.31	0.26
P5													0.25

Date: 1/13/1995 2/14/1995 3/17/1995 4/13/1995 5/15/1995 6/20/1995 7/13/1995 8/11/1995 9/14/1995 10/17/1995 11/17/1995 12/18/1995 1/16/1996 2/19/1996

<u>Site</u>	88.00	90.00	90.00	88.00	9.00	7.50	83.00	8.50	1.50	85.00	83.00	83.00	82.00
87-3	0.42	0.37	0.35	0.32	0.40	0.38	0.36	0.36	0.05	0.33	0.32	0.32	0.33
P1	0.52	0.48	0.48	0.50	0.52	0.52	0.47	0.43	0.10	0.45	0.62	0.62	0.24
P3	0.74	0.66	0.66	0.70	0.72	0.66	0.67	0.68	0.24	0.63	0.60	0.60	0.60
P4	0.32	0.26	0.25	0.24	0.30	0.28	0.28	0.28	0.10	0.24	0.24	0.24	0.45
P5													

**General Motors
Grand Rapids Metal Fabrication Plants
VACUUM SUMMARY
(Pressure in Inches)**

Date: 3/19/1996 4/12/1996 5/16/1996 6/13/1996 7/16/1996 8/16/1996 9/13/1996 10/17/1996 11/19/1996 12/12/1996 1/20/1997 2/14/1997 3/13/1997 4/18/1997

<u>Site</u>	3/19/1996	4/12/1996	5/16/1996	6/13/1996	7/16/1996	8/16/1996	9/13/1996	10/17/1996	11/19/1996	12/12/1996	1/20/1997	2/14/1997	3/13/1997	4/18/1997
87-3	82.00	84.00	85.00	85.00	75.00	85.00	85.00	85.00	88.00	88.00	86.00	86.00	90.00	90.00
P1	0.34	0.36	0.39	0.39	0.38	0.40	0.36	0.36	0.36	0.35	0.35	0.34	0.36	0.35
P3	0.45	0.50	0.49	0.30	0.50	0.50	0.48	0.48	0.48	0.48	0.46	0.45	0.47	0.49
P4	0.65	0.66	0.70	0.71	0.70	0.73	0.66	0.68	0.68	0.66	0.66	0.64	0.58	0.66
P5	0.26	0.26	0.30	0.50	0.30	0.30	0.26	0.28	0.26	0.25	0.25	0.25	0.20	0.25

Date: 5/15/1997 6/19/1997 7/17/1997 8/14/1997 9/19/1997 10/17/1997 11/14/1997 12/16/1997 1/14/1998 2/16/1998 3/12/1998 4/22/1998 5/20/1998 6/16/1998

<u>Site</u>	5/15/1997	6/19/1997	7/17/1997	8/14/1997	9/19/1997	10/17/1997	11/14/1997	12/16/1997	1/14/1998	2/16/1998	3/12/1998	4/22/1998	5/20/1998	6/16/1998
87-3	90.00	90.00	90.00	90.00	85.00	85.00	88.00	86.00	85.00	87.00	90.00	85.00	88.00	90.00
P1	0.35	0.38	0.38	0.38	0.38	0.36	0.36	0.36	0.28	0.38	0.36	0.38	0.38	0.36
P3	0.50	0.51	0.50	0.52	0.52	0.50	0.48	0.46	0.40	0.48	0.46	0.49	0.52	0.51
P4	0.68	0.70	0.70	0.70	0.70	0.66	0.66	0.66	0.58	0.60	0.66	0.69	0.68	0.68
P5	0.26	0.29	0.28	0.28	0.30	0.26	0.25	0.27	0.20	0.21	0.25	0.28	0.27	0.29

**General Motors
Grand Rapids Metal Fabrication Plants
VACUUM SUMMARY
(Pressure in Inches)**

Date:	7/16/1998	8/19/1998	9/17/1998	10/14/1998	11/18/1998	12/16/1998	1/12/1999	2/16/1999	3/18/1999	4/12/1999	5/18/1999	6/15/1999	7/21/1999
<u>Site</u>													
87-3	90.00	90.00	85.00	80.00	60.00	85.00	85.00	85.00	90.00	90.00	90.00	90.00	90.00
P1	0.40	0.42	0.38	0.34	0.28	0.32	0.36	0.36	0.35	0.35	0.38	0.40	0.38
P3	0.52	0.52	0.29	0.46	0.36	0.42	0.52	0.46	0.46	0.46	0.51	0.52	0.53
P4	0.70	0.75	0.70	0.64	0.55	0.63	0.66	0.66	0.63	0.66	0.68	0.70	0.70
P5	0.30	0.32	0.54	0.26	0.22	0.23	0.26	0.26	0.34	0.25	0.28	0.30	0.30

Date:	8/17/1999	9/20/1999	10/19/1999	11/17/1999	12/16/1999	1/11/2000	2/15/2000	3/16/2000	4/19/2000	5/15/2000	6/13/2000	7/25/2000	8/23/2000
<u>Site</u>													
87-3	80.00	90.00	90.00	90.00	88.00	82.00	70.00	90.00	90.00	90.00	90.00	90.00	90.00
P1	0.40	0.36	0.36	0.24	0.36	0.35	0.32	0.34	0.40	0.35	0.37	0.40	0.38
P3	0.52	0.50	0.48	0.45	0.50	0.47	0.44	0.46	0.54	0.50	0.48	0.52	0.56
P4	0.72	0.68	0.66	0.62	0.68	0.65	0.58	0.64	0.72	0.66	0.26	0.70	0.70
P5	0.30	0.28	0.25	0.24	0.25	0.25	0.24	0.24	0.30	0.26	0.71	0.28	0.28

**General Motors
Grand Rapids Metal Fabrication Plants
VACUUM SUMMARY
(Pressure in Inches)**

Date:	9/22/2000	10/23/2000	11/16/2000	12/20/2000	1/18/2001	2/21/2001	3/21/2001	6/13/2001	8/22/2001	9/13/2001	10/9/2001	11/13/2001	12/19/2001	1/4/2002
<u>Site</u>														
87-3	90.00	90.00	17.00	90.00	90.00	90.00	90.00	92.00	90.00	90.00	92.00	94.00	92.00	15
P1	0.38	0.38	0.00	0.36	0.36	0.36	0.35	0.38	No Access	0.40	No Access	0.36	0.35	0.32
P3	0.52	0.51	0.10	0.60	0.50	0.59	0.50	0.48	0.56	0.55	0.48	0.48	0.46	0.49
P4	0.72	0.68	0.21	0.68	0.68	0.68	0.66	0.68	0.55	0.72	0.68	0.68	0.64	0.68
P5	0.29	0.28	0.07	0.25	0.26	0.26	0.24	0.27	0.15	0.30	0.26	0.26	0.22	0.22

Date:	2/6/2002	3/27/2002	4/3/2002	5/11/2002	6/12/2002	7/3/2002	8/14/2002	9/9/02	10/16/2002	11/27/2002	12/18/2002	1/29/2003	2/12/2003	3/19/2003
<u>Site</u>														
87-3	No Access	14	14	9	9.00	1.75	SD	SD	9.00	9.50	SD	9.00	9.50	SD
P1	0.39	0.38	0.40	0.31	0.40	No Access	SD	SD	No Access	0.34	SD	0.41	0.24	SD
P3	0.50	0.45	0.50	0.45	0.55	0.12	SD	SD	0.12	0.13	SD	0.11	0.11	SD
P4	0.70	0.69	0.70	0.15	0.70	0.24	SD	SD	0.23	No Access	SD	0.68	0.60	SD
P5	28 H ₂ O"	0.28	0.28	0.30	0.30	0.10	SD	SD	0.23	0.24	SD	0.22	0.20	SD

Notes:
SD-System Down

**General Motors
Grand Rapids Metal Fabrication Plants
VACUUM SUMMARY
(Pressure in Inches)**

Date: 7/14/2003 9/30/2003 12/17/2003 3/15/2004 10/4/2004 12/3/2004

<u>Site</u>	7/14/2003	9/30/2003	12/17/2003	3/15/2004	10/4/2004	12/3/2004
87-3	SD	SD	SD	SD	SD	SD
P1	SD	SD	SD	SD	SD	SD
P3	SD	SD	SD	SD	SD	SD
P4	SD	SD	SD	SD	SD	SD
P5	SD	SD	SD	SD	SD	SD

Date:

- Site
- 87-3
- P1
- P3
- P4
- P5

Notes:
SD=System Down

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: 85-7 **ELEVATION:** top of casing - 678.69
REVISION: 1/5/2010 **DEPTH:** screen - 20.6 to 25.6
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
12/06/85	E58330	2 U	84	4	<2	--	--	<10
05/05/86	E62226	2 U	240	10	<2	--	--	<10
01/21/87	E70821	2 U	150	4	<2	--	--	<10
12/21/88	E11590	--	97	<2	--	--	--	--
03/17/89	E15517	--	70	1.2	--	--	--	--
06/15/89	E21115	--	45	<1	--	--	--	--
09/20/89	E25594	--	40	<1	--	--	--	--
12/21/89	E30989	--	29	<1	--	--	--	--
03/16/90	E35816	--	23	<1	--	--	--	--
06/18/90	E42010	--	21	<1	--	--	--	--
09/14/90	E48214	--	35	<1	--	--	--	--
12/17/90	E54814	--	21	<2	--	--	--	--
03/11/91	E59922	--	22	<1	--	--	--	--
06/13/91	E67558	--	34	<1	--	--	--	--
09/12/91	E72976	--	25	1	--	--	--	--
12/13/91	E07643	--	22	2	--	--	--	--
03/13/92	E15380	--	37	3	--	--	--	--
06/12/92	E23259	--	38	1.6	--	--	--	--
09/11/92	E31913	--	38	1.1	--	--	--	--
12/10/92	E40326	--	33	<1	--	--	--	--
03/11/93	E47623	--	23	<1	--	--	--	--
06/14/93	E56589	--	17	<1	--	--	--	--
09/15/93	E66025	--	21	<1	--	--	--	--
12/17/93	E75745	--	13	<1	--	--	--	--
03/16/94	E81239	--	12	<1	--	--	--	--
06/14/94	E89391	--	11	<1	--	--	--	--
09/14/94	E97442	--	12	<1	--	--	--	--
12/16/94	E106399	--	7	<1	--	--	--	--
03/17/95	E112947	--	6.8	<2	--	--	--	--
06/20/95	E120791	--	4.4	<2	--	--	--	--
09/14/95	E127380	--	3.1	<2	--	--	--	--
12/18/95	E134966	--	1.7	<1	--	--	--	--
03/19/96	E139837	--	1.8	<1	--	--	--	--
06/13/96	E146841	--	1.5	<1	--	--	--	--
09/13/96	E154124	--	2	<1	--	--	--	--
12/12/96	E161523	--	1.7	<1	--	--	--	--
03/13/97	E166207	--	<1	<1	--	--	--	--
06/19/97	E172379	--	<1	<1	--	--	--	--
09/11/97	E177742	--	1.4	<1	--	--	--	--
12/16/97	E184901	--	1.4	<1	--	--	--	--
03/12/98	E190814	--	<1	<1	--	--	--	--
06/16/98	82953-3397	--	<1	<2	--	--	--	--
09/17/98	84367-8364	--	<1	<1	--	--	--	--
12/16/98	85755-2520	--	<1	<1	--	--	--	--
03/10/99	90995-6091	--	<1	<1	--	--	--	--
06/15/99	3990294012	--	1.3	<2	--	--	--	--
09/20/99	3991971006	--	1.7	<1	--	--	--	--
12/16/99	3993622012	--	1.1	<1	--	--	--	--

-- = Not analyzed/measured DCE = Dichloroethene

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 85-7 **ELEVATION:** top of casing - 678.69
REVISION: 1/5/2010 **DEPTH:** screen - 20.6 to 25.6
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152009	--	<1	<1	--	--	--	--
06/13/00	3002633009	--	<1	<1	--	--	--	--
09/22/00	E261225	--	1.2	<1	--	--	--	--
12/20/00	E268212	--	1.5	<1	--	--	--	--
03/21/01	E274380	--	<1	<1	--	--	--	--
06/13/01	E281016	--	<1	<1	--	--	--	--
09/13/01	E287756	--	SS<1	SS<1	--	--	--	--
12/19/01	E295708	--	1.1	<1	--	--	--	--
03/28/02	⁽¹⁾ -032802-TJ-007	--	<1	<1	--	--	--	--
06/26/02	⁽¹⁾ -062602-JB-023	--	<1	<1	--	--	--	--
*6/26/02	⁽¹⁾ -062602-JB-024	--	<1	<1	--	--	--	--
09/26/02	⁽¹⁾ -092602-JB-054	--	<1	<1	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-074	--	<1	<1	--	--	--	--
*12/9/2002	⁽¹⁾ -120902-JB-075	--	<1	<1	<1	--	--	<1
03/21/03	⁽¹⁾ -032103-JB-095	--	1.1	--	--	Δ	Δ	--
07/15/03	⁽¹⁾ -071503-SP-055	1.0 U	0.79	--	Δ	Δ	Δ	<1
*7/15/2003	⁽¹⁾ -071503-SP-056	1.0 U	0.88	--	Δ	Δ	Δ	<1
10/02/03	⁽¹⁾ -100203-JB-086	1.0 U	0.93	--	Δ	Δ	Δ	<1
*10/02/03	⁽¹⁾ -100203-JB-087	1.0 U	0.90	--	Δ	Δ	Δ	<1
12/17/03	⁽¹⁾ -121703-JB-100	1.0 U	0.81	--	Δ	Δ	Δ	<1
03/16/04	⁽¹⁾ -031604-BW-143	1.0 U	0.72	--	Δ	Δ	Δ	<1
10/05/04	⁽¹⁾ -100504-DCR-257	1.0 U	0.77	--	Δ	Δ	Δ	<1
12/01/04	⁽¹⁾ -120104-DCR-301	1.0 U	0.81	--	Δ	Δ	Δ	<1
04/06/05	⁽¹⁾ -040605-DCR-353	1.0 U	0.78 J	--	<1	Δ	Δ	<1
06/28/05	⁽¹⁾ -062805-DCR-382	1.0 U	0.70 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/06/05	⁽¹⁾ -120605-DCR-571	1.0 U	0.50 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
12/06/05	⁽¹⁾ -120605-DCR-572	1.0 U	0.54 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	⁽¹⁾ -091206-JY-032	1.0 UJ	0.48 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-076	1.0 U	0.35 J	1 U	1 U	1 U	1 U	1 U
10/16/07	⁽¹⁾ -101607-DR-120	1.0 U	0.51 J	1 U	1 U	1 U	1 U	1 U
04/22/08	⁽¹⁾ -042208-DR-161	1.0 U	0.58 J	1 U	1 U	1 U	1 U	1 U
10/07/08	⁽¹⁾ -100708-DR-210	1 U	1	--	1 U	1 U	1 U	1 U
04/06/09	⁽¹⁾ -040609-DR-240	1 U	1.3	--	1 U	--	--	--
10/06/09	⁽¹⁾ -100609-DR-281	1 U	2.5	--	1 U	2.7	0.38J	1 U

DCE = Dichloroethene

-- = Not analyzed/measured

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

⁽¹⁾ Full sample number includes GW-17360

* Duplicate

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 86-2
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	Vinyl Chloride
05/05/86	E62228	55000	12	4	<10
01/23/87	E70823	90000	<200	<200	<1000
12/21/88	E11591	100000	<100	--	--

Note: Converted to purge well, see Aquazorb Carbon System Summary below for Influent results (03/15/89 to 06/30/92) and flow data.

SITE: 86-2
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	Influent TCE	Total Flow Gallons
03/15/89	A02041	5400	262
03/20/89	A02136	9540	28824
03/30/89	--	--	48610
04/06/89	A02678	3040	93544
04/14/89	--	--	147039
04/21/89	A03274	2110	194249
05/05/89	A03702	2210	276839
05/22/89	A04239	1700	392315
06/09/89	A04811	1370	517629
06/23/89	--	--	614267
07/10/89	A05856	305	730872
07/28/89	--	--	857772
08/11/89	A07209	400	957223
08/22/89	--	--	1034854
09/14/89	A08208	1270	2324518
10/02/89	--	--	1422045
10/12/89	A9897	1460	--
10/25/89	--	--	1515795
11/08/89	A1455	500	161907
12/05/89	--	--	1846287
12/15/89	A2721	340	--
01/05/90	A3240	530	2690842
02/09/90	A4264	780	2925077
03/07/90	A4994	1600	3096307
03/07/90	--	--	3096307
04/04/90	A6115	1100	3298682
05/03/90	A7185	900	3422570
06/04/90	A8773	700	3637224
07/05/90	A09823	1000	3637639
08/03/90	--	--	4276027
08/08/90	A01183	1300	4309227
09/11/90	A02894	1000	4334802
10/02/90	H3932	1300	4678358

-- = Not analyzed/measured

DCE = Dichloroethene

TCE = Trichloroethene

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 86-2
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	Influent TCE	Total Flow Gallons
11/09/90	H5793	1000	4687251
12/03/90	H6984	740	4838633
12/07/90	--	--	4861635
01/14/91	A0571	70	5049924
03/05/91	A2696	890	5340851
03/26/91	--	--	5460294
06/06/91	A6491	930	5849972
09/03/91	A9014	1000	6322915
09/26/91	--	--	6521221
12/02/91	--	--	7357351
01/06/92	A0210	660	8067437
03/10/92	A04437	410	9034727
06/30/92	A00262	184	--

Note: In July, 1993, the Aquazorb Carbon System was removed and groundwater began to be discharged to the city sanitary sewer. In July, 1994, purge well 86-2 was connected to a carbon treatment system which discharges to the storm drain via a NPDES permit.

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Gallons Pumped #
07/17/92	E26666	--	600	--	--	--	--
08/13/92	E29155	--	500	--	--	--	427800
09/11/92	E31912	--	470	<1	--	--	362300
10/16/92	E35368	--	650	--	--	--	548500
11/12/92	E37805	--	360	--	--	--	480800
12/10/92	E40325	--	410	<5	--	--	379800
01/15/93	E43370	--	500	--	--	--	379800
02/12/93	E45487	--	420	--	--	--	409500
03/11/93	E47622	--	320	<10	--	--	593000
04/15/93	E50676	--	360	--	--	--	477600
05/13/93	E53156	--	300	--	--	--	575700
06/14/93	E57771	--	210	<10	--	--	532600
07/16/93	E60030	--	240	--	--	--	503000
08/11/93	E62711	--	200	--	--	--	616500
09/15/93	E66022	--	180	<10	--	--	478400
10/19/93	E69404	--	210	--	--	--	485300
11/17/93	E72554	--	180	--	--	--	569000
12/17/93	E75744	--	130	<5	--	--	458700
01/13/94	E77457	--	150	--	--	--	595000
03/16/94	E81235	--	120	<10	--	--	471900
04/13/94	E83746	--	95	--	--	--	586300
05/06/94	E86251	--	79	--	--	--	555600
06/14/94	E89387	--	70	<2	--	--	253600
08/10/94	--	--	--	--	--	--	594300

-- = Not analyzed/measured DCE = Dichloroethene TCE = Trichloroethene
= Date reflects sampling day; whereas total gallonage covers entire month.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 86-2
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Gallons Pumped #
09/07/94	--	--	--	--	--	--	343500
09/15/94	E97618	--	68	<5	--	--	--
10/05/94	--	--	--	--	--	--	263200
11/09/94	--	--	--	--	--	--	510300
12/07/94	--	--	--	--	--	--	387700
12/16/94	E106395	--	27	<1	--	--	--
01/04/95	--	--	--	--	--	--	231200
02/08/95	--	--	--	--	--	--	518100
03/08/95	--	--	--	--	--	--	429500
03/17/95	E112955	--	17	<2	--	--	--
04/05/95	--	--	--	--	--	--	455100
05/03/95	--	--	--	--	--	--	407600
06/07/95	--	--	--	--	--	--	580100
06/20/95	E120800	--	13	<2	--	--	--
07/05/95	--	--	--	--	--	--	397900
08/03/95	--	--	--	--	--	--	482600
09/07/95	--	--	--	--	--	--	584800
09/14/95	E127379	--	6.6	<2	--	--	--
10/04/95	--	--	--	--	--	--	449400
11/01/95	--	--	--	--	--	--	461500
12/06/95	--	--	--	--	--	--	555800
12/19/95	E134974	--	7.3	<1	--	--	--
01/03/96	--	--	--	--	--	--	452600
02/07/96	--	--	--	--	--	--	480600
03/06/96	--	--	--	--	--	--	356500
03/19/96	E139842	--	8.5	<1	--	--	--
04/03/96	--	--	--	--	--	--	368500
05/01/96	--	--	--	--	--	--	396900
06/05/96	--	--	--	--	--	--	443300
06/13/96	E146839	--	9.3	<1	--	--	--
06/26/96	--	--	--	--	--	--	399300
07/31/96	--	--	--	--	--	--	504900
09/04/96	--	--	--	--	--	--	486900
09/13/96	E154122	--	8.1	<1	--	--	--
10/02/96	--	--	--	--	--	--	386500
10/30/96	--	--	--	--	--	--	396800
12/04/96	--	--	--	--	--	--	357100
12/12/96	E161520	--	8.4	<1	--	--	--
12/31/96	--	--	--	--	--	--	268800
01/29/97	--	--	--	--	--	--	357900
02/26/97	--	--	--	--	--	--	332400
03/13/97	E166216	--	5.2	<1	--	--	--
03/26/97	--	--	--	--	--	--	317200
04/30/97	--	--	--	--	--	--	326200
05/28/97	--	--	--	--	--	--	280200

-- = Not analyzed/measured DCE = Dichloroethene TCE = Trichloroethene
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**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 86-2
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Gallons Pumped #
06/19/97	E172377	--	6	<1	--	--	--
07/02/97	--	--	--	--	--	--	360300
08/06/97	--	--	--	--	--	--	372000
09/04/97	--	--	--	--	--	--	295900
09/11/97	E177739	--	5.6	<1	--	--	--
10/01/97	--	--	--	--	--	--	227100
11/05/97	--	--	--	--	--	--	167900
12/03/97	--	--	--	--	--	--	171200
12/16/97	E184899	--	5.2	<1	--	--	--
12/31/97	--	--	--	--	--	--	176000
01/28/98	--	--	--	--	--	--	108080
02/25/98	--	--	--	--	--	--	149600
03/12/98	E190827	--	3.4	<1	--	--	--
03/26/98	--	--	--	--	--	--	148500
04/29/98	--	--	--	--	--	--	139400
05/27/98	--	--	--	--	--	--	143750
06/16/98	82953-3395	--	5	<2	--	--	--
07/01/98	--	--	--	--	--	--	277150
07/29/98	--	--	--	--	--	--	181300
09/02/98	--	--	--	--	--	--	316800
09/17/98	84367-8358	--	4	<1	--	--	--
09/30/98	--	--	--	--	--	--	213000
10/28/98	--	--	--	--	--	--	211800
12/02/98	--	--	--	--	--	--	224900
12/16/98	85755-2516	--	5	<1	--	--	--
12/31/98	--	--	--	--	--	--	206100
01/27/99	--	--	--	--	--	--	105900
02/24/99	--	--	--	--	--	--	0
03/18/99	91113-6522	--	5	<1	--	--	--
03/24/99	--	--	--	--	--	--	138600
04/29/99	--	--	--	--	--	--	586700
06/01/99	--	--	--	--	--	--	547000
06/15/99	3990294008	--	8.1	<2	--	--	--
06/30/99	--	--	--	--	--	--	590800
07/28/99	--	--	--	--	--	--	568700
09/01/99	--	--	--	--	--	--	703400
09/20/99	3991971004	--	9.8	<1	--	--	--
09/29/99	--	--	--	--	--	--	569700
11/03/99	--	--	--	--	--	--	692800
12/01/99	--	--	--	--	--	--	482200
12/16/99	3993622008	--	7.4	<1	--	--	692800
12/29/99	--	--	--	--	--	--	300500
02/02/00	--	--	--	--	--	--	568500
03/01/00	--	--	--	--	--	--	563600
03/16/00	3001152004	--	7.8	<1	--	--	--
03/29/00	--	--	--	--	--	--	546900

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**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 86-2
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Gallons Pumped #
04/25/00	--	--	--	--	--	--	535800
05/31/00	--	--	--	--	--	--	699000
06/13/00	3002633007	--	6	<1	--	--	--
06/28/00	--	--	--	--	--	--	562100
07/26/00	--	--	--	--	--	--	571400
08/30/00	--	--	--	--	--	--	695600
09/22/00	E261218	--	8.4	<1	--	--	--
11/01/00	--	--	--	--	--	--	261900
11/29/00	--	--	--	--	--	--	19300
12/20/00	E268210	--	10	<1	--	--	--
01/03/01	--	--	--	--	--	--	433400
02/26/01	--	--	--	--	--	--	400300
03/21/01	E274374	--	7.4	<1	--	--	--
03/28/01	--	--	--	--	--	--	457100
04/24/01	--	--	--	--	--	--	421200
05/30/01	--	--	--	--	--	--	206700
06/13/01	E281014	--	6.6	<1	--	--	--
06/25/01	--	--	--	--	--	--	327930
07/16/01	--	--	--	--	--	--	517670
08/22/01	--	--	--	--	--	--	417700
09/13/01	E287754	--	6.6	<1	--	--	410900
10/09/01	--	--	--	--	--	--	212300
11/13/01	--	--	--	--	--	--	394600
12/19/01	E295715	--	3.4	<1	--	--	388100
03/28/02	^U -032802-TJ-004	--	5.5	<1	--	--	--
06/27/02	^U -062702-JB-041	--	3.1	<1	--	--	--
09/26/02	^U -092602-JB-050	--	3.8	<1	--	--	--
12/09/02	^U -120902-JB-069	--	4.1	<1	--	--	--
03/21/03	^U -032103-JB-094	--	3.9	--	<1	<1	--
07/15/03	^U -071503-SP-063	1.0 U	3.3	--	<1	<1	--
10/07/03	^U -100703-JB-095	1.0 U	3.8	--	<1	<1	--
12/17/03	^U -121703-JB-094	1.0 U	4.7	--	0.36	<1	--
03/16/04	^U -031604-BW-142	1.0 U	3.1	--	<1	<1	--
10/06/04	^U -100604-DCR-272	1.0 U	4.1	--	<1	<1	--
12/02/04	^U -120204-DCR-314	1.0 U	4.2	--	<1	<1	--
06/29/05	^U -062905-DCR-402	1.0 U	10	--	1.0 U	1.0 U	--
12/05/05	^U -091306-DR-047	1.0 UJ	2.7	--	1.0 U	1.0 U	--
09/13/06	^U -120505-DCR-568	1.0 UJ	2.8	--	1.0 U	1.0 U	--
05/10/07	⁽¹⁾ -051007-JY-091	1.0 UJ	4.4	1.0 U	0.28 J	1.0 U	--
10/17/07	⁽¹⁾ -101707-DR-133	1.0 U	4.5	1.0 U	0.37 J	1.0 U	--
04/22/08	⁽¹⁾ -042208-DR-168	1.0 U	4.8	1.0 U	1.0 U	1.0 U	--
10/07/08	⁽¹⁾ -100708-DR-215	1.0 U	5.8	--	1.0 U	1.0 U	--
04/08/09	⁽¹⁾ -040809-DR-264	1.0 U	6.4	--	1.0 U	1.0 U	--
10/07/09	⁽¹⁾ -100709-DR-298	1U	1U	--	1.0 U	1.0 U	--

-- = Not analyzed/measured DCE = Dichloroethene
= Date reflects sampling day; whereas total gallonage covers entire month.

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary Analytical Data**

SITE: 86-3
 REVISION: 1/5/2010
 UNITS: ug/L
 ELEVATION: top of casing - 676.51
 DEPTH: screen - 41.5 to 46.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
05/05/86	E62229	10 U	1400	10	<10	--	--	<50
01/21/87	E70824	2 U	340	4	<2	--	--	<10
06/08/88	E91243	2 U	170	10	<2	--	--	<10
12/21/88	E11592	--	630	<20	--	--	--	--
03/16/89	E15518	--	380	<10	--	--	--	--
06/15/89	E21116	--	150	<1	--	--	--	--
09/20/89	E25595	--	130	7	--	--	--	--
12/21/89	E30997	--	430	15	<10	--	--	<10
03/16/90	E35817	--	440	<10	--	--	--	--
06/18/90	E42011	--	240	<10	--	--	--	--
09/14/90	E48215	--	210	4	--	--	--	--
12/17/90	E54822	--	150	4	<4	--	--	<20
03/11/91	E59923	--	94	<2	--	--	--	--
06/13/91	E67555	--	56	2	--	--	--	--
09/13/91	E72977	--	58	11	--	--	--	--
12/13/91	E07651	--	73	13	<2	--	--	<2
03/13/92	E15388	--	99	19	--	--	--	--
06/12/92	E23261	--	140	8.6	--	--	--	--
09/11/92	E31916	--	88	6.4	--	--	--	--
12/10/92	E40332	--	110	3	<1	--	--	<1
03/11/93	E47625	--	72	<2	--	--	--	--
06/15/93	E56583	--	70	3	--	--	--	--
09/15/93	E66047	--	**	**	--	--	--	--
10/19/93	E69399	--	40	1.8	--	--	--	--
12/17/93	E75751	--	46	9.1	<2	--	--	<2
03/16/94	E81241	--	57	3.4	--	--	--	--
06/14/94	E89393	--	53	2.1	--	--	--	--
09/14/94	E97440	--	44	1.0	--	--	--	--
12/16/94	E106407	--	32	<1	<1	--	--	<1
03/17/95	E112959	--	27	2.4	--	--	--	--
06/20/95	E120795	--	31	<2	--	--	--	--
09/14/95	E127390	--	24	<2	--	--	--	--
12/18/95	E134976	--	16	<1	<1	--	--	<1
03/19/96	E139846	--	10	<1	--	--	--	--
06/13/96	E146843	--	15	<1	--	--	--	--
09/13/96	E154127	--	21	<1	--	--	--	--
12/13/96	E161534	--	10	<1	<1	--	--	<1
03/13/97	E166219	--	11	<1	--	--	--	--
06/19/97	E172385	--	16	<1	--	--	--	--
09/11/97	E177752	--	14	<1	--	--	--	--
12/16/97	E184905	--	11	1.2	<1	--	--	<1
03/12/98	E190817	--	5.2	<1	--	--	--	--
06/16/98	82953-3400	--	9	<2	--	--	--	--
09/17/98	84367-8370	--	4	<1	--	--	--	--
12/16/98	85755-2525	--	4	<1	<1	--	--	<1
03/10/99	90995-6095	--	4	<1	--	--	--	--
06/15/99	3990294016	--	4.6	<2	--	--	--	--
09/20/99	3991971012	--	4.8	<1	--	--	--	--
12/16/99	3993622010	--	3	<1	<1	--	--	<1

-- = Not analyzed/measured DCE = Dichloroethene
 ** = Suspected that samples were labeled incorrectly in the field. Resampled 10/19/93.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary Analytical Data**

SITE: 86-3 **ELEVATION:** top of casing - 676.51
REVISION: 1/5/2010 **DEPTH:** screen - 41.5 to 46.5
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152013	--	2.4	<1	--	--	--	--
06/13/00	3002633014	--	1.7	<1	--	--	--	--
09/22/00	E261233	--	3.4	<1	--	--	--	--
12/20/00	E268215	--	3.9	<1	<1	--	--	<1
03/21/01	E274391	--	3.9	<1	--	--	--	--
06/14/01	E281021	--	5.2	<1	--	--	--	--
09/13/01	E287759	--	5.7	<1	--	--	--	--
12/19/01	E295712	--	5.3	<1	<1	--	--	<1
03/28/02	⁽¹⁾ -032802-TJ-013	--	8.7	1.8	--	--	--	--
06/26/02	⁽¹⁾ -062602-JB-026	--	1.2	<1	--	--	--	--
09/27/02	⁽¹⁾ -092702-JB-059	--	1.9	<1	--	--	--	--
01/06/03	⁽¹⁾ -010603-JB-088	--	5.2	<1	<1	--	--	<1
03/21/03	⁽¹⁾ -032103-JB-097	--	4.7	--	--	<1	<1	--
07/14/03	⁽¹⁾ -071403-SP-053	1.0 U	4.3	--	<1	<1	<1	<1
09/30/03	⁽¹⁾ -093003-JB-073	1.0 U	2.2	--	<1	<1	<1	<1
12/18/03	⁽¹⁾ -121803-JB-104	1.0 U	2.1	--	<1	<1	<1	<1
03/15/04	⁽¹⁾ -031504-BW-132	1.0 U	1.4	--	<1	<1	<1	<1
10/05/04	⁽¹⁾ -100504-DCR-253	1.0 U	2.0	--	<1	<1	<1	<1
12/01/04	⁽¹⁾ -120104-DCR-298	1.0 U	1.0	--	<1	<1	<1	<1
04/05/05	⁽¹⁾ -040505-DCR-341	1.0 U	0.89 J	--	<1	<1	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-378	1.0 U	1.1	--	1.0 U	1.0 U	1.0 U	1.0 U
12/03/05	⁽¹⁾ -120305-DCR-554	1.0 U	0.68 J	--	1.0 U	1.0 U	1.0 UJ	1.0 U
09/12/06	⁽¹⁾ -091206-JY-028	1.0 UJ	1.8	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-074	1.0 U	4.6	1.0 U	1.0 U	0.72 J	0.25 J	1.0 U
10/16/07	⁽¹⁾ -101607-DR-115	1.0 U	5.4	1.0 U	0.23 J	1.1	0.35 J	1.0 U
04/23/08	⁽¹⁾ -042308-DR-182	1.0 U	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-206	1.0 U	3.9	--	1.0 U	0.76 J	0.2 J	1.0 U
04/07/09	⁽¹⁾ -040709-DR-255	1.0 U	4.5	--	1.0 U	2.5	0.38 J	0.25 J
10/06/09	⁽¹⁾ -100609-DR-286	1.0U	4.3	--	1.0U	0.68J	1.0U	1.0U

-- = Not analyzed/measured DCE = Dichloroethene
 ** = Suspected that samples were labeled incorrectly in the field. Resampled 10/19/93.
⁽¹⁾ Full sample number includes GW-17360

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: 87-1 ELEVATION: top of casing - 681.15
REVISION: 1/5/2010 DEPTH: screen - 24.0 to 29.0
UNITS: ug/L 8.5 to 19.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/23/87	E70825	10 U	1200	16	<10	--	--	<50
12/21/88	E11593	--	540	8	--	--	--	--
03/16/89	E15519	--	380	14	--	--	--	--
06/16/89	E21117	--	140	15	--	--	--	--
09/20/89	E25596	--	180	15	--	--	--	--
12/21/89	E30990	--	170	22	--	--	--	--
03/16/90	E35818	--	230	66	--	--	--	--
06/18/90	E42012	--	370	60	--	--	--	--
09/14/90	E48216	--	300	58	--	--	--	--
12/18/90	E54815	--	260	47	--	--	--	--
03/11/91	E59925	--	200	<10	--	--	--	--
06/13/91	E67553	--	180	43	--	--	--	--
09/12/91	E72978	--	170	55	--	--	--	--
12/13/91	E07644	--	180	40	--	--	--	--
03/13/92	E15381	--	230	50	--	--	--	--
06/12/92	E23255	--	200	37	--	--	--	--
09/11/92	E31911	--	190	36	--	--	--	--
12/10/92	E40323	--	200	21	--	--	--	--
03/11/93	E47621	--	140	20	--	--	--	--
06/14/93	E56588	--	130	22	--	--	--	--
09/15/93	E66023	--	170	24	--	--	--	--
12/17/93	E75742	--	140	23	--	--	--	--
03/16/94	E81234	--	200	23	--	--	--	--
06/14/94	E89386	--	200	25	--	--	--	--
09/14/94	E97443	--	190	15	--	--	--	--
12/16/94	E106394	--	170	22	--	--	--	--
03/17/95	E112954	--	180	21	--	--	--	--
06/20/95	E120786	--	230	<20	--	--	--	--
09/14/95	E127382	--	170	17	--	--	--	--
12/19/95	E134972	--	170	17	--	--	--	--
03/19/96	E139838	--	180	19	--	--	--	--
06/13/96	E146838	--	170	23	--	--	--	--
09/13/96	E154120	--	170	27	--	--	--	--
12/12/96	E161522	--	150	36	--	--	--	--
03/13/97	E166218	--	170	52	--	--	--	--
06/19/97	E172376	--	170	50	--	--	--	--
09/11/97	E177736	--	180	55	--	--	--	--
12/16/97	E184898	--	170	55	--	--	--	--
03/12/98	E190812	--	200	46	--	--	--	--
06/16/98	82953-3391	--	29	<2	--	--	--	--
09/17/98	84367-8353	--	D42	1	--	--	--	--
12/16/98	85755-2515	--	D56	D<5	--	--	--	--
03/10/99	90995-6089	--	D75	D<5	--	--	--	--
06/15/99	3990294006	--	D68	D<10	--	--	--	--
09/20/99	3991971003	--	D72	D15	--	--	--	--
12/16/99	3993622014	--	72	D17	--	--	--	--

-- = Not analyzed DCE = Dichloroethene
D = Compound identified in an analysis at a secondary dilution factor.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-1 ELEVATION: top of casing - 681.15
 REVISION: 1/5/2010 DEPTH: screen - 24.0 to 29.0
 UNITS: ug/L 8.5 to 19.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152005	--	D79	D27	--	--	--	--
06/13/00	3002633006	--	D60	D31	--	--	--	--
09/22/00	E261217	--	78	43	--	--	--	--
12/20/00	E268205	--	100	58	--	--	--	--
03/21/01	E274378	--	120	65	--	--	--	--
06/13/01	E281013	--	140	52	--	--	--	--
09/13/01	E287753	--	140	41	--	--	--	--
12/19/01	E295706	--	110	78	--	--	--	--
03/28/02	⁽¹⁾ -032802-TJ-006	--	120	73.9	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-040	--	110	95.5	--	--	--	--
09/26/02	⁽¹⁾ -092602-JB-051	--	82	85.7	--	--	--	--
*9/26/02	⁽¹⁾ -092602-JB-052	--	78	85.7	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-068	--	93	69.9	--	--	--	--
03/21/03	⁽¹⁾ -032103-JB-091	--	40	--	--	57	3.2	--
07/15/03	⁽¹⁾ -071503-SP-061	2.5 U	55	--	2.4	50	3.3	7.2
10/02/03	⁽¹⁾ -100203-JB-083	3.3 U	1.9	--	3.4	100	8.3	5.1
12/17/03	⁽¹⁾ -121703-JB-093	2.5 U	76	--	3.0	40	6.7	5.2
03/16/04	⁽¹⁾ -031604-BW-139	2.0 U	30	--	2.2	52	5.3	7.9
10/06/04	⁽¹⁾ -100604-DCR-269	2.0 U	27	--	2.7	56	6.8	12
12/02/04	⁽¹⁾ -120204-DCR-310	1.4 U	39	--	2.1	39	5.7	5.5
04/06/05	⁽¹⁾ -040605-DCR-359	1.4 U	47	--	2.5	<1	7.3	9.0
06/29/05	⁽¹⁾ -062905-DCR-403	1.7 U	28	--	1.9	49	7.3	12 J
12/05/05	⁽¹⁾ -120505-DCR-565	1.0 UJ	37	--	2.1	37 J	7.8	14
09/13/06	⁽¹⁾ -091306-DR-045	1.0 UJ	30	--	1.2	30	3.8	13
05/10/07	⁽¹⁾ -051007-JY-093	1.0 UJ	15	1.0 U	1.0 U	16	0.66 J	16
10/17/07	⁽¹⁾ -101707-DR-136	1.0 UJ	1.2	1.0 U	1.5	19	1.2	17
04/22/08	⁽¹⁾ -042208-DR-169	1.0 UJ	1.4	1.0 U	1.1	30	7	15
10/07/08	⁽¹⁾ -100708-DR-219	1.0 U	17	--	0.78 J	21	3.8	15
04/08/09	⁽¹⁾ -040809-DR-266	1.0 U	12	--	0.5 J	15	2.4	16
* 04/08/09	⁽¹⁾ -040809-DR-267	1.0 U	12	--	0.55 J	15	2.5	17
10/07/09	⁽¹⁾ -100709-DR-2301	1.0U	21	--	0.92J	19	3.4	10

-- = Not analyzed DCE = Dichloroethene
 D = Compound identified in an analysis at a secondary dilution factor.

⁽¹⁾ Full sample number includes GW-17360

* Duplicate

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-2 **ELEVATION:** top of casing - 681.16
REVISION: 1/5/2010 **DEPTH:** screen - 33.2 to 38.2
UNITS: ug/L 7.5 to 18.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/23/87	E70826	2.0 U	65	12	<2	--	--	<10
12/21/88	E11594	--	72	15	--	--	--	--
03/16/89	E15520	--	50	16	--	--	--	--
06/15/89	E21118	--	51	15	--	--	--	--
09/20/89	E25597	--	57	15	--	--	--	--
12/21/89	E30991	--	37	10	--	--	--	--
03/16/90	E35819	--	63	17	--	--	--	--
06/18/90	E42013	--	65	17	--	--	--	--
09/14/90	E48217	--	71	18	--	--	--	--
12/17/90	E54816	--	49	13	--	--	--	--
03/11/91	E59926	--	45	1	--	--	--	--
06/13/91	E67554	--	44	11	--	--	--	--
09/12/91	E72979	--	42	13	--	--	--	--
12/13/91	E07645	--	37	6	--	--	--	--
03/13/92	E15382	--	39	10	--	--	--	--
06/12/92	E23257	--	35	6.7	--	--	--	--
09/11/92	E31909	--	33	19	--	--	--	--
12/10/92	E40321	--	36	6	--	--	--	--
03/11/93	E47620	--	37	8.7	--	--	--	--
06/14/93	E56585	--	39	14	--	--	--	--
09/15/93	E66020	--	57	19	--	--	--	--
12/17/93	E75740	--	42	11	--	--	--	--
03/16/94	E81237	--	45	15	--	--	--	--
06/14/94	E89388	--	50	16	--	--	--	--
09/14/94	E97444	--	37	12	--	--	--	--
12/16/94	E106396	--	46	15	--	--	--	--
03/17/95	E112952	--	54	19	--	--	--	--
06/20/95	E120789	--	36	16	--	--	--	--
09/14/95	E127394	--	41	21.7	--	--	--	--
12/19/95	E134971	--	39	22	--	--	--	--
03/19/96	E139840	--	46	27	--	--	--	--
06/13/96	E146836	--	52	29	--	--	--	--
09/13/96	E154121	--	52	30	--	--	--	--
12/12/96	E161519	--	48	30	--	--	--	--
03/13/97	E166214	--	45	27	--	--	--	--
06/19/97	E172374	--	55	31	--	--	--	--
09/11/97	E177737	--	52	27	--	--	--	--
12/16/97	E184897	--	51	27	--	--	--	--
03/12/98	E190811	--	61	31	--	--	--	--
06/16/98	82953-3390	--	30	12	--	--	--	--
09/17/98	84367-8354	--	D41	D10	--	--	--	--
12/16/98	85755-2513	--	D44	D12	--	--	--	--
03/10/99	90995-6087	--	D49	D11	--	--	--	--
06/15/99	3990294002	--	D57	D13	--	--	--	--
09/20/99	3991971002	--	D64	D13	--	--	--	--
12/16/99	3993622003	--	51	D15	--	--	--	--

-- = Not analyzed DCE = Dichloroethene
D = Compound identified in an analysis at a secondary dilution factor.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-2 **ELEVATION:** top of casing - 681.16
REVISION: 1/5/2010 **DEPTH:** screen - 33.2 to 38.2
UNITS: ug/L **7.5 to 18.5**

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152002	--	D53	D12	--	--	--	--
06/13/00	3002633002	--	D42	D16	--	--	--	--
09/22/00	E261219	--	49	19	--	--	--	--
12/20/00	E268206	--	56	22	--	--	--	--
03/21/01	E274373	--	46	18	--	--	--	--
06/13/01	E281012	--	42	17	--	--	--	--
09/13/01	E287752	--	SS 48	SS 12	--	--	--	--
12/19/01	E295705	--	38	16	--	--	--	--
03/28/02	⁽¹⁾ -032802-TJ-002	--	42	28.7	--	--	--	--
*3/28/2002	⁽¹⁾ -032802-TJ-003	--	41	28.6	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-039	--	15	39.1	--	--	--	--
*6/27/02	⁽¹⁾ -062702-JB-038	--	14	40.1	--	--	--	--
09/26/02	⁽¹⁾ -092602-JB-053	--	43	21.2	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-070	--	41	28.2	--	--	--	--
03/21/03	⁽¹⁾ -032103-JB-092	--	35	--	--	23	3.5	--
07/15/03	⁽¹⁾ -071503-SP-062	1.0 U	26	--	<1	23	2.4	<1
10/02/03	⁽¹⁾ -100203-JB-085	1.4 U	8.5	--	<1.4	41	2.6	<1.4
12/17/03	⁽¹⁾ -121703-JB-095	1.0 U	35	--	<1.0	23	3.1	<1.0
*12/17/03	⁽¹⁾ -121703-JB-097	1.0 U	33	--	<1.0	23	2.9	<1.0
03/16/04	⁽¹⁾ -031604-BW-141	1.0 U	25	--	<1.0	21	2.7	<1.0
10/06/04	⁽¹⁾ -100604-DCR-273	1.4 U	7.7	--	<1.0	33	2.3	1.9
12/02/04	⁽¹⁾ -120204-DCR-313	1.0 U	24	--	<1.0	21	2.4	1.2
04/06/05	⁽¹⁾ -040605-DCR-363	1.0 U	29	--	<1.0	22	2.8	2.6
06/29/05	⁽¹⁾ -062905-DCR-404	1.0 U	2.3	--	1.0 U	33	2.7	9.7 J
12/05/05	⁽¹⁾ -120505-DCR-569	1.0 UJ	13	--	1.0 U	24	2.7	7.6
09/13/06	⁽¹⁾ -091306-DR-048	1.0 UJ	20	--	1.0 U	21	3.6	7.8
05/10/07	⁽¹⁾ -051007-JY-092	1.0 UJ	22	1.0 U	1.0 U	20	3.7	7.9
10/17/07	⁽¹⁾ -101707-DR-135	1.0 U	5.7	1.0 U	1.0 U	19	3.1	19
04/22/08	⁽¹⁾ -042208-DR-170	1.0 U	13	1.0 U	1.0 U	17	3.7	14
10/07/08	⁽¹⁾ -100708-DR-214	1.0 U	12	--	1.0 U	20	3.9	14
04/08/09	⁽¹⁾ -040809-DR-265	1.0 U	14	--	1.0 U	17	3.8	12
10/07/09	⁽¹⁾ -100709-DR-300	1.0 U	11	--	1.0 U	16	3.3	15

-- = Not analyzed DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

⁽¹⁾ Full sample number includes GW-17360

* Duplicate

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-4
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 681.11
DEPTH: screen - 8.5 to 19.5
24.0 to 27.0

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/23/87	E70827	2.0 U	87	<2	<2	--	--	<10
12/21/88	E11595	--	42	<2	--	--	--	--
03/17/89	E15521	--	32	<1	--	--	--	--
06/15/89	E21119	--	20	<1	--	--	--	--
09/20/89	E25598	--	21	<1	--	--	--	--
12/21/89	E30992	--	19	<1	--	--	--	--
03/16/90	E35820	--	18	<1	--	--	--	--
06/18/90	E42014	--	17	<1	--	--	--	--
09/14/90	E48218	--	9	<1	--	--	--	--
12/17/90	E54817	--	4	<2	--	--	--	--
03/11/91	E59927	--	3	<1	--	--	--	--
06/13/91	E67556	--	2	<1	--	--	--	--
09/12/91	E72980	--	2	<1	--	--	--	--
12/13/91	E07646	--	1	<1	--	--	--	--
03/13/92	E15384	--	2	<1	--	--	--	--
06/12/92	E23258	--	1.1	<1	--	--	--	--
09/11/92	E31910	--	1	7.7	--	--	--	--
12/10/92	E40322	--	<1	<1	--	--	--	--
03/11/93	E47619	--	<1	<1	--	--	--	--
06/14/93	E56586	--	1.1	<1	--	--	--	--
09/15/93	E66021	--	<1	<1	--	--	--	--
12/17/93	E75741	--	<1	<1	--	--	--	--
03/16/94	E81238	--	<1	<1	--	--	--	--
06/14/94	E89389	--	<1	<1	--	--	--	--
09/14/94	E97445	--	<1	<1	--	--	--	--
12/16/94	E106397	--	<1	<1	--	--	--	--
03/17/95	E112953	--	<1	<2	--	--	--	--
06/20/95	E120790	--	<1	<2	--	--	--	--
09/14/95	E127378	--	<1	<2	--	--	--	--
12/19/95	E134970	--	<1	<1	--	--	--	--
03/19/96	E139841	--	<1	<1	--	--	--	--
06/13/96	E146835	--	<1	<1	--	--	--	--
09/13/96	E154119	--	1.2	<1	--	--	--	--
12/12/96	E161518	--	<1	<1	--	--	--	--
03/13/97	E166213	--	<1	<1	--	--	--	--
06/19/97	E172373	--	<1	<1	--	--	--	--
09/11/97	E177738	--	1	<1	--	--	--	--
12/16/97	E184896	--	<1	<1	--	--	--	--
03/12/98	E190810	--	<1	<1	--	--	--	--
06/16/98	82953-3389	--	<1	<2	--	--	--	--
09/17/98	84367-8360	--	<1	<1	--	--	--	--
12/16/98	85755-2512	--	<1	<1	--	--	--	--
03/10/99	90995-6088	--	<1	<1	--	--	--	--
06/15/99	3990294001	--	<1	<2	--	--	--	--
09/20/99	3991971001	--	1.1	<1	--	--	--	--
12/16/99	3993622002	--	<1	<1	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-4
 REVISION: 1/5/2010
 UNITS: ug/L

ELEVATION: top of casing - 681.11
 DEPTH: screen - 8.5 to 19.5
 24.0 to 27.0

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152001	--	<1	<1	--	--	--	--
06/13/00	3002633001	--	<1	<1	--	--	--	--
09/22/00	E261220	--	<1	<1	--	--	--	--
12/20/00	E268204	--	<1	<1	--	--	--	--
03/21/01	E274372	--	<1	<1	--	--	--	--
06/13/01	E281011	--	<1	<1	--	--	--	--
09/13/01	E287751	--	SS<1	SS<1	--	--	--	--
12/19/01	E295704	--	SS<1	SS<1	--	--	--	--
03/28/02	⁽¹⁾ -032802-TJ-001	--	<1	<1	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-036	--	<1	<1	--	--	--	--
09/26/02	⁽¹⁾ -092602-JB-049	--	<1	<1	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-066	--	<1	<1	--	--	--	--
03/21/03	⁽¹⁾ -032103-JB-090	--	<1	--	--	<1	<1	--
07/15/03	⁽¹⁾ -071503-SP-059	1.0 U	<1	--	<1	<1	<1	<1
10/07/03	⁽¹⁾ -100703-JB-094	1.0 U	3.7	--	<1	<1	<1	<1
12/17/03	⁽¹⁾ -121703-JB-091	1.0 U	0.41	--	<1	<1	<1	<1
03/16/04	⁽¹⁾ -031604-BW-137	1.0 U	<1	--	<1	<1	<1	<1
*03/16/04	⁽¹⁾ -031604-BW-138	1.0 U	<1	--	<1	<1	<1	<1
10/06/04	⁽¹⁾ -100604-DCR-270	1.0 U	0.41	--	<1	<1	<1	<1
12/02/04	⁽¹⁾ -120204-DCR-307	1.0 U	0.35	--	<1	<1	<1	<1
04/06/05	⁽¹⁾ -040605-DCR-358	1.0 U	0.68 J	--	<1	<1	<1	<1
06/29/05	⁽¹⁾ -062905-DCR-401	1.0 U	1.1	--	1.0 U	1.0 U	1.0 U	1.0 UJ
12/05/05	⁽¹⁾ -120505-DCR-566	1.0 UJ	2.4	--	1.0 U	1.0 U	1.0 U	1.0 U
09/13/06	⁽¹⁾ -091306-DR-046	1.0 UJ	5.6	--	1.0 U	1.0 U	1.0 U	1.0 U
05/10/07	⁽¹⁾ -051007-JY-089	1.0 UJ	5.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/17/07	⁽¹⁾ -101707-DR-134	1.0 U	7.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	⁽¹⁾ -042208-DR-165	1.0 U	4.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-213	1.0 U	4.9	--	1.0 U	1.0 U	1.0 U	1.0 U
04/08/09	⁽¹⁾ -040809-DR-262	1.0 U	5.8	--	1.0 U	1.0 U	1.0 U	1.0 U
10/07/09	⁽¹⁾ -100709-DR-299	1.0 U	5.7	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed
 DCE = Dichloroethene
 SS = Surrogate spike result had a percent recovery outside the upper control limit.
 This result must be considered estimated.
⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-5
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 680.77
DEPTH: screen - 8.5 to 19.5
39.5 to 50.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/30/87	E70828	2.0 U	70	<2	<2	--	--	<10
03/17/89	E15526	--	190	11	--	--	--	--
06/15/89	E21120	--	230	27	--	--	--	--
09/20/89	E25599	--	170	23	--	--	--	--
12/21/89	E30993	--	87	21	--	--	--	--
03/16/90	E35821	--	93	24	--	--	--	--
06/18/90	E42015	--	130	33	--	--	--	--
09/14/90	E48219	--	130	26	--	--	--	--
12/18/90	E54818	--	94	29	--	--	--	--
03/12/91	E59928	--	340	13	--	--	--	--
06/13/91	E67557	--	120	49	--	--	--	--
09/12/91	E72981	--	70	120	--	--	--	--
12/13/91	E07647	--	16	110	--	--	--	--
03/13/92	E15383	--	14	150	--	--	--	--
06/12/92	E23256	--	45	110	--	--	--	--
09/11/92	E31908	--	16	95	--	--	--	--
12/10/92	E40324	--	63	110	--	--	--	--
03/11/93	E47618	--	6.6	110	--	--	--	--
06/14/93	E56587	--	<10	140	--	--	--	--
09/15/93	E66024	--	<10	130	--	--	--	--
12/17/93	E75743	--	9.1	99	--	--	--	--
03/16/94	E81236	--	<5	140	--	--	--	--
06/14/94	E89390	--	25	110	--	--	--	--
09/14/94	E97438	--	33	67	--	--	--	--
12/16/94	E106398	--	14	99	--	--	--	--
03/17/95	E112956	--	10	72.6	--	--	--	--
06/20/95	E120787	--	11	62.6	--	--	--	--
09/14/95	E127381	--	4	61.2	--	--	--	--
12/19/95	E134973	--	4.4	53	--	--	--	--
03/19/96	E139839	--	3.8	42	--	--	--	--
06/13/96	E146837	--	5.3	38	--	--	--	--
09/13/96	E154123	--	20	110	--	--	--	--
12/12/96	E161521	--	6.9	77	--	--	--	--
03/13/97	E166217	--	3.8	52	--	--	--	--
06/19/97	E172378	--	17	78	--	--	--	--
09/11/97	E177740	--	29	57	--	--	--	--
12/16/97	E184900	--	29	47	--	--	--	--
03/12/98	E190813	--	34	50	--	--	--	--
06/16/98	82953-3396	--	2	4	--	--	--	--
09/17/98	84367-8359	--	D<5	D52	--	--	--	--
12/16/98	85755-2514	--	3	22	--	--	--	--
03/10/99	90995-6090	--	6	14	--	--	--	--
06/15/99	3990294007	--	3.9	9.8	--	--	--	--
09/20/99	3991971005	--	3.9	9	--	--	--	--
12/16/99	3993622004	--	3.9	9.1	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-5
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 680.77
DEPTH: screen - 8.5 to 19.5
39.5 to 50.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152003	--	3.5	9.2	--	--	--	--
06/13/00	3002633008	--	1.8	14	--	--	--	--
09/22/00	E261221	--	2.1	11	--	--	--	--
12/20/00	E268211	--	2.8	14	--	--	--	--
03/21/01	E274379	--	1.8	4.5	--	--	--	--
06/13/01	E281015	--	29	33	--	--	--	--
09/13/01	E287755	--	SS 100	SS 36	--	--	--	--
12/19/01	E295707	--	2.7	20	--	--	--	--
03/28/02	⁽¹⁾ -032802-TJ-005	--	215	<5	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-037	--	<1	68	--	--	--	--
09/26/02	⁽¹⁾ -092602-JB-048	--	<2	115	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-067	--	<2	78	--	--	--	--
03/21/03	⁽¹⁾ -032103-JB-089	--	<1	--	--	1.6	3.6	--
07/15/03	⁽¹⁾ -071503-SP-060	4.0 U	<4	--	<4	33	13	130
10/02/03	⁽¹⁾ -100203-JB-084	2.5 U	<2.5	--	<2.5	3	2.1	92
12/17/03	⁽¹⁾ -121703-JB-092	3.3 U	<3.3	--	<3.3	23	12	120
03/16/04	⁽¹⁾ -031604-BW-140	4.0 U	3.1	--	<4	11	10	120
10/06/04	⁽¹⁾ -100604-DCR-271	4.2 U	<4.2	--	<4.2	1.4	5.2	91
12/02/04	⁽¹⁾ -120204-DCR-308	3.3 U	1.1	--	<3.3	28	16	90
04/06/05	⁽¹⁾ -040605-DCR-362	5.0 U	<5	--	<5	3.7 J	11	150
06/29/05	⁽¹⁾ -062905-DCR-405	1.2 U	0.73 J	--	1.2 U	1.4	1.4	31
12/05/05	⁽¹⁾ -120505-DCR-568	2.5 U	2.5 U	--	2.5 U	0.57 J	3	60 J
09/13/06	⁽¹⁾ -091306-DR-049	2.5 UJ	2.5 U	--	2.5 U	1.3 J	6.1	59
05/10/07	⁽¹⁾ -051007-JY-090	3.3 UJ	3.3 U	3.3 U	3.3 U	18	22	96
10/17/07	⁽¹⁾ -101707-DR-131	3.3 U	3.3 U	3.3 U	4.1	5.9	15	94
04/22/08	⁽¹⁾ -042208-DR-167	3.3 U	3.3 U	3.3 U	3.3 U	8.7	18	84
10/07/08	⁽¹⁾ -100708-DR-216	1.0 U	0.3 J	--	1.0 U	0.32 J	7.5	29
*10/7/2008	⁽¹⁾ -100708-DR-217	1.0 U	0.33 J	--	1.0 U	0.45 J	8.1	37
04/08/09	⁽¹⁾ -040809-DR-263	1.0 U	0.44 J	--	1.0 U	1.0 U	4	25
10/07/09	⁽¹⁾ -100709-DR-297	1.0 U	0.43 J	--	1.0 U	1.0 U	3.9	35

-- = Not analyzed

DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

⁽¹⁾ Full sample number includes GW-17360

*Duplicate

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-8
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 677.47
DEPTH: screen - 19.7 to 22.7

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/21/87	E70829	2 U	9	<2	<2	--	--	<10
06/08/88	E91244	2 U	6	<2	<2	--	--	<10
12/21/88	E11597	--	6	<2	--	--	--	--
03/16/89	E15527	--	4.7	<1	--	--	--	--
06/16/89	E21121	--	2.3	<1	--	--	--	--
09/20/89	E25600	--	3	<1	--	--	--	--
12/21/89	E30998	--	3	<1	<1	--	--	<1
03/16/90	E35822	--	2	<1	--	--	--	--
06/18/90	E42016	--	4	<1	--	--	--	--
09/14/90	E48220	--	4	<1	--	--	--	--
12/17/90	E54823	--	6	<2	<2	--	--	<10
03/11/91	E59929	--	5	<1	--	--	--	--
06/13/91	E67559	--	4	<1	--	--	--	--
09/13/91	E72982	--	3	<1	--	--	--	--
12/13/91	E07652	--	2	<1	<1	--	--	<1
03/13/92	E15385	--	4	<1	--	--	--	--
06/12/92	E23260	--	3.1	<1	--	--	--	--
09/11/92	E31914	--	2.1	<1	--	2.1	--	--
12/10/92	E40331	--	1	<1	<1	--	--	<1
03/11/93	E47637	--	1.6	<1	--	--	--	--
06/14/93	E56575	--	1.9	<1	--	--	--	--
09/15/93	E66027	--	1.9	<1	--	1.9	--	--
12/17/93	E75752	--	2.2	<1	<1	--	--	<1
03/16/94	E81240	--	1.2	<1	--	--	--	--
06/14/94	E89392	--	1.3	<1	--	--	--	--
09/14/94	E97439	--	<1	<1	--	--	--	--
12/16/94	E106404	--	1.3	<1	<1	--	--	<1
03/17/95	E112958	--	1.4	<2	--	--	--	--
06/20/95	E120794	--	1.1	<2	--	--	--	--
09/14/95	E127383	--	<1	<2	--	--	--	--
12/18/95	E134975	--	<1	<1	<1	--	--	<1
03/19/96	E139845	--	<1	<1	--	--	--	--
06/13/96	E146842	--	1	<1	--	--	--	--
09/13/96	E154126	--	1.1	<1	--	--	--	--
12/13/96	E161532	--	1.4	<1	<1	--	--	<1
03/13/97	E166212	--	<1	<1	--	--	--	--
06/19/97	E172380	--	<1	<1	--	--	--	--
09/11/97	E177751	--	1.1	<1	--	--	--	--
12/16/97	E184904	--	1.3	<1	<1	--	--	<1
03/12/98	E190815	--	<1	<1	--	--	--	--
06/16/98	82953-3399	--	<1	<2	--	--	--	--
09/17/98	84367-8368	--	<1	<1	--	--	--	--
12/16/98	85755-2523	--	2	<1	<1	--	--	<1
03/10/99	90995-6093	--	4	<1	--	--	--	--
06/15/99	3990294015	--	1.6	<2	--	--	--	--
09/20/99	3991971011	--	1.5	<1	--	--	--	--
12/16/99	3993622009	--	2	<1	<1	--	--	<1

-- = Not analyzed

DCE = Dichloroethene

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-8
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 677.47
DEPTH: screen - 19.7 to 22.7

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152012	--	2.6	<1	--	--	--	--
06/13/00	3002633010	--	1.4	<1	--	--	--	--
09/22/00	E261231	--	1.2	<1	--	--	--	--
12/20/00	E268213	--	2.7	<1	<1	--	--	<1
03/21/01	E274390	--	1.3	<1	--	--	--	--
06/14/01	E281020	--	<1	<1	--	--	--	--
09/13/01	E287758	--	1	<1	--	--	--	--
12/19/01	E295711	--	1.2	<1	<1	--	--	<1
03/28/02	^(U) -032802-TJ-014	--	<1	<1	--	--	--	--
06/26/02	^(U) -062602-JB-027	--	<1	<1	--	--	--	--
09/27/02	^(U) -092702-JB-061	--	<1	<1	--	--	--	--
12/09/02	^(U) -120902-JB-077	--	<1	<1	<1	--	--	<1
03/21/03	^(U) -032103-JB-099	--	<1	--	--	<1	<1	--
08/06/03	^(U) -080603-JB-068	1.0 U	<1	--	<1	<1	<1	<1
*8/6/2003	^(U) -080603-JB-069	1.0 U	<1	--	<1	<1	<1	<1
09/30/03	^(U) -093003-JB-074	1.0 U	0.33	--	<1	<1	<1	<1
12/18/03	^(U) -121803-JB-105	0.25 J	0.53	--	<1	<1	<1	<1
03/15/04	^(U) -031504-BW-133	0.20 J	0.52	--	<1	<1	<1	<1
10/05/04	^(U) -100504-DCR-252	1.0 U	0.52	--	<1	<1	<1	<1
12/01/04	^(U) -120104-DCR-300	0.39 J	0.90	--	<1	0.28	<1	<1
04/06/05		--	--	--	--	--	--	--
06/29/05		--	--	--	--	--	--	--
04/23/08	^(U) -042308-DR-179	4.1 J	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	^(U) -100708-DR-204	1.0 UJ	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	^(U) -040709-DR-256	1.0 U	.038 J	--	1.0 U	1.0 U	1.0 U	1.0 U
10/06/09	^(U) -100609-DR-287	0.29 J	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

^(U) Full sample number includes GW-17360

* Duplicate

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-9
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 673.88
DEPTH: screen - 50.5 to 53.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
01/21/87	E70830	2 U	62	<2	<2	--	--	<10
06/08/88	E91245	2 U	21	<2	<2	--	--	<10
12/21/88	E11598	--	18	<2	--	--	--	--
03/16/89	E15522	--	12	<1	--	--	--	--
06/15/89	E21122	--	7.9	<1	--	--	--	--
09/20/89	E25601	--	6	<1	--	--	--	--
12/21/89	E30999	--	5	<1	<1	--	--	<1
03/16/90	E35823	--	4	<1	--	--	--	--
06/19/90	E42017	--	3	<1	--	--	--	--
09/14/90	E48221	--	3	<1	--	--	--	--
12/17/90	E54824	--	2	<2	<2	--	--	<10
03/11/91	E59930	--	2	<1	--	--	--	--
06/13/91	E67561	--	2	<1	--	--	--	--
09/13/91	E72983	--	1	<1	--	--	--	--
12/13/91	E07653	--	1	<1	Δ	--	--	<1
03/13/92	E15387	--	1	<1	--	--	--	--
06/12/92	E23262	--	1.6	3.5	--	--	--	--
09/11/92	E31917	--	1.4	<1	--	--	--	--
12/10/92	E40334	--	2	<1	Δ	--	--	<1
03/11/93	E47627	--	<1	<1	--	--	--	--
06/14/93	E56576	--	<1	<1	--	--	--	--
09/15/93	E66028	--	**	**	--	--	--	--
10/19/93	E69400	--	1.4	<1	--	--	--	--
12/17/93	E75753	--	<1	<1	Δ	--	--	<1
03/16/94	E81244	--	<1	<1	--	--	--	--
06/14/94	E89396	--	<1	<1	--	--	--	--
09/14/94	E97446	--	<1	<1	--	--	--	--
12/16/94	E106408	--	<1	<1	Δ	--	--	<1
03/17/95	E112961	--	<1	<2	--	--	--	--
06/20/95	E120796	--	<1	<2	--	--	--	--
09/14/95	E127391	--	<1	<2	--	--	--	--
12/18/95	E134978	--	<1	<1	Δ	--	--	<1
03/19/96	E139847	--	<1	<1	--	--	--	--
06/13/96	E146845	--	<1	<1	--	--	--	--
09/13/96	E154128	--	<1	<1	--	--	--	--
12/13/96	E161535	--	<1	<1	Δ	--	--	<1
03/13/97	E166220	--	<1	<1	--	--	--	--
06/19/97	E172386	--	<1	<1	--	--	--	--
09/11/97	E177754	--	1	<1	--	--	--	--
12/16/97	E184907	--	<1	<1	Δ	--	--	<1
03/12/98	E190819	--	<1	<1	--	--	--	--
06/16/98	82953-3403	--	<1	<2	--	--	--	--
09/17/98	84367-8372	--	<1	<1	--	--	--	--
12/16/98	85755-2527	--	<1	<1	Δ	--	--	<1
03/10/99	90995-6096	--	<1	<1	--	--	--	--
06/15/99	3990294018	--	<1	<2	--	--	--	--
09/20/99	3991971014	--	<1	<1	--	--	--	--
12/16/99	3993622011	--	<1	<1	Δ	--	--	<1

-- = Not analyzed

DCE = Dichloroethene

** = Suspected that samples were labeled incorrectly in the field. Resampled 10/19/93.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-9
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 673.88
DEPTH: screen - 50.5 to 53.5

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152014	--	<1	<1	--	--	--	--
06/13/00	3002633017	--	<1	<1	--	--	--	--
09/22/00	E261234	--	<1	<1	--	--	--	--
12/20/00	E268218	--	<1	<1	<1	--	--	<1
03/21/01	E274392	--	<1	<1	--	--	--	--
06/14/01	E281022	--	<1	<1	--	--	--	--
09/13/01	E287743	--	<1	<1	--	--	--	--
12/19/01	E295713	--	SS<1	SS<1	SS<1	--	--	SS<1
03/28/02	⁽¹⁾ -032802-TJ-012	--	<1	<1	--	--	--	--
06/26/02	⁽¹⁾ -062602-JB-025	--	<1	<1	--	--	--	--
09/27/02	⁽¹⁾ -092702-JB-060	--	1.9	<1	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-076	--	9.7	3.8	<1	--	--	<1
03/21/03	⁽¹⁾ -032103-JB-096	--	<1	--	--	<1	<1	--
08/06/03	⁽¹⁾ -080603-JB-067	1.0 U	<1	--	<1	<1	<1	<1
09/30/03	⁽¹⁾ -093003-JB-070	1.0 U	0.3	--	<1	<1	<1	<1
12/18/03	⁽¹⁾ -121803-JB-103	1.0 UJ	0.38	--	0.7	<1	<1	<1
03/15/04	⁽¹⁾ -031504-BW-129	1.0 U	<1	--	<1	<1	<1	<1
10/05/04	⁽¹⁾ -100504-DCR-255	1.0 U	<1	--	<1	<1	<1	<1
12/01/04	⁽¹⁾ -120104-DCR-299	1.0 U	0.31	--	<1	<1	<1	<1
04/05/05	⁽¹⁾ -040505-DCR-340	1.0 UJ	<1	--	<1	<1	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-379	1.0 U	0.28 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/04/05	⁽¹⁾ -120405-DCR-555	1.0 UJ	0.38 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	⁽¹⁾ -091206-DR-026	1.0 UJ	0.45 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-073	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	⁽¹⁾ -101607-DR-116	1.0 U	0.42 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/23/08	⁽¹⁾ -042308-DR-178	1.0 U	0.477 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-207	1.0 U	0.51 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-253	1.0 U	0.8 J	--	1.0 U	1.0 U	1.0 U	1.0 U
10/06/09	⁽¹⁾ -100609-DR-284	1.0 U	1.6	--	1.0 U	0.26 J	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

** = Suspected that samples were labeled incorrectly in the field. Resampled 10/19/93.

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-10
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 668.83
DEPTH: screen - 29 to 32

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
06/08/88	E91246	2 U	46	8	<2	--	--	<10
12/21/88	E11599	--	58	10	--	--	--	--
03/16/89	E15523	--	48	14	--	--	--	--
06/16/89	E21123	--	42	10	--	--	--	--
09/20/89	E25602	--	50	7	--	--	--	--
12/21/89	E31000	--	63	8	<1	--	--	<1
03/16/90	E35824	--	79	10	--	--	--	--
06/19/90	E42018	--	83	8	--	--	--	--
09/14/90	E48222	--	110	11	--	--	--	--
12/17/90	E54825	--	89	7	<2	--	--	<10
03/11/91	E59931	--	70	<1	--	--	--	--
06/13/91	E67562	--	66	3	--	--	--	--
09/12/91	E72984	--	50	3	--	--	--	--
12/13/91	E07654	--	55	2	<1	--	--	<1
03/13/92	E15393	--	51	2	--	--	--	--
06/12/92	E23267	--	47	<1	--	--	--	--
09/11/92	E31921	--	35	<1	--	--	--	--
12/11/92	E40336	--	55	1	<1	--	--	<1
03/11/93	E47631	--	46	1.3	--	--	--	--
06/15/93	E56578	--	47	1.2	--	--	--	--
09/15/93	E66049	--	49	<2	--	--	--	--
12/17/93	E75755	--	47	<2	<2	--	--	<2
03/16/94	E81247	--	55	<1	--	--	--	--
06/14/94	E89399	--	130 *	40 *	--	--	--	--
09/14/94	E97451	--	52	<5	--	--	--	--
12/16/94	E106406	--	58	<1	<1	--	--	<1
03/17/95	E112951	--	55	1.2	--	--	--	--
06/20/95	E120804	--	69	2	--	--	--	--
09/14/95	E127389	--	65	<4	--	--	--	--
12/18/95	E134982	--	62	<2	<2	--	--	<2
03/19/96	E139853	--	51	1.7	--	--	--	--
06/13/96	E146850	--	67	3	--	--	--	--
09/13/96	E154134	--	80	4.2	--	--	--	--
12/12/96	E161527	--	64	4.7	<1	--	--	<1
03/13/97	E166224	--	62	6.3	--	--	--	--
06/19/97	E172390	--	68	7.5	--	--	--	--
09/11/97	E177748	--	52	7.7	--	--	--	--
12/16/97	E184910	--	53	8.8	1.8	--	--	1.6
03/13/98	E190823	--	53	4.8	--	--	--	--
06/16/98	82953-3407	--	30	4	--	--	--	--
09/17/98	84367-8376	--	32	3	--	--	--	--
12/16/98	85755-2531	--	32	3	<1	--	--	<1
03/10/99	90995-6105	--	33	2	--	--	--	--
06/15/99	3990294020	--	33	3.1	--	--	--	--
09/20/99	3991971015	--	35	2.2	--	--	--	--
12/16/99	3993622017	--	52	D<5	<5	--	--	<5

-- = Not analyzed

DCE = Dichloroethene

* = It is believed that this sample was inadvertently switched during the field event with the sample from monitoring well 87-11.

D = Compound identified in an analysis at a secondary dilution factor.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-10
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 668.83
DEPTH: screen - 29 to 32

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152017	--	D65	D<5	--	--	--	--
06/13/00	3002633020	--	D41	D<2	--	--	--	--
09/22/00	E261235	--	97	2	--	--	--	--
12/20/00	E268220	--	80	2.6	<1	--	--	<1
03/21/01	E274386	--	64	1.1	--	--	--	--
06/14/01	E281024	--	72	<1	--	--	--	--
09/13/01	E287745	--	76	<1	--	--	--	--
12/19/01	E295717	--	46	1.2	<1	--	--	<1
03/28/02	⁽¹⁾ -032802-TJ-021	--	72	2.3	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-032	--	33	<1	--	--	--	--
09/27/02	⁽¹⁾ -092702-JB-063	--	54	1.5	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-083	--	48	1.6	<1	--	--	<1
03/21/03	⁽¹⁾ -032103-JB-104	--	41	--	--	1.8	<1	--
07/14/03	⁽¹⁾ -071403-SP-046	1.0 U	27	--	0.51	1.6	<1	<1
10/01/03	⁽¹⁾ -100103-JB-076	2.0 U	44	--	<2	1.4	<2	<2
12/18/03	⁽¹⁾ -100103-JB-114	0.34 J	44	--	<1.7	1.1	<1.7	<1.7
03/15/04	⁽¹⁾ -031504-BW-124	2.0 U	47	--	<2	1.2	<2	<2
10/04/04	⁽¹⁾ -100404-DCR-246	1.7 U	39	--	<1.7	0.78	<1.7	<1.7
12/01/04	⁽¹⁾ -120104-DCR-295	0.50 J	45	--	<1.4	0.95	<1.4	<1.4
04/05/05	⁽¹⁾ -040505-DCR-345	0.51 J	28	--	0.34 J	0.90 J	0.19 J	<1
06/29/05	⁽¹⁾ -062905-DCR-393	0.46 J	25	--	0.32 J	0.77 J	0.20 J	1.0 UJ
12/06/05	⁽¹⁾ -120605-DCR-576	0.44 J	26	--	0.24 J	0.76 J	1.0 U	1.0 U
09/11/06	⁽¹⁾ -091106-DR-017	0.34 J	17	--	0.21 J	0.92 J	0.2 J	1.0 U
05/09/07	⁽¹⁾ -050907-JY-065	0.36 J	13	1.0 U	1.0 U	0.95 J	1.0 U	1.0 U
10/15/07	⁽¹⁾ -101507-DR-107	0.46 J	14	1.0 U	0.41 J	0.85 J	0.2 J	1.0 U
04/21/08	⁽¹⁾ -042108-DR-141	0.37 J	10	1.0 U	1.0 U	0.69 J	1.0 U	1.0 U
10/06/08	⁽¹⁾ -100608-DR-193	0.34 J	11	--	1.0 U	0.66 J	0.19 J	1.0 U
04/07/09	⁽¹⁾ -040709-DR-246	0.31 J	11	--	0.29 J	1.6	0.4 J	1.0 U
10/08/09	⁽¹⁾ -100809-DR-308	0.38 J	10	--	0.3 J	1.5	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

* = It is believed that this sample was inadvertently switched during the field event with the sample from monitoring well 87-11.

D = Compound identified in an analysis at a secondary dilution factor.

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-11
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 667.17
DEPTH: screen - 30 to 33

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
06/08/88	E91247	2 U	320	76	<2	--	--	<10
12/21/88	E11600	--	500	69	--	--	--	--
03/16/89	E15524	--	330	55	--	--	--	--
06/16/89	E21124	--	190	70	--	--	--	--
09/20/89	E25603	--	220	44	--	--	--	--
12/21/89	E31001	--	150	40	<5	--	--	<5
03/16/90	E35825	--	230	69	--	--	--	--
06/19/90	E42019	--	200	120	--	--	--	--
09/14/90	E48223	--	220	64	--	--	--	--
12/17/90	E54826	--	48	15	<2	--	--	<10
03/11/91	E59932	--	240	<5	--	--	--	--
06/13/91	E67563	--	220	46	--	--	--	--
09/12/91	E72985	--	160	25	--	--	--	--
12/13/91	E07655	--	150	92	<5	--	--	<5
03/13/92	E15394	--	180	38	--	--	--	--
06/12/92	E23266	--	160	39	--	--	--	--
09/11/92	E31922	--	140	25	--	--	--	--
12/11/92	E40337	--	200	38	<5	--	--	<5
03/11/93	E47632	--	110	20	--	--	--	--
06/15/93	E56579	--	99	21	--	--	--	--
09/15/93	E66050	--	97	14	--	--	--	--
12/17/93	E75754	--	90	17	<5	--	--	<5
03/16/94	E81246	--	99	36	--	--	--	--
06/14/94	E89400	--	58 *	<5 *	--	--	--	--
09/14/94	E97448	--	88	24	--	--	--	--
12/16/94	E106409	--	110	38	<5	--	--	<5
03/17/95	E112950	--	130	30	--	--	--	--
06/20/95	E120805	--	140	53	--	--	--	--
09/14/95	E127388	--	130	58	--	--	--	--
12/18/95	E134981	--	120	34	<5	--	--	<5
03/19/96	E139851	--	160	26	--	--	--	--
06/13/96	E146851	--	150	78	--	--	--	--
09/13/96	E154135	--	210	63	--	--	--	--
12/12/96	E161528	--	180	39	<5	--	--	<5
03/13/97	E166225	--	170	110	--	--	--	--
06/19/97	E172391	--	210	71	--	--	--	--
09/11/97	E177749	--	190	34	--	--	--	--
12/16/97	E184911	--	190	34	<5	--	--	<5
03/13/98	E190824	--	200	48	--	--	--	--
06/16/98	82953-3408	--	D110	D16	--	--	--	--
09/17/98	84367-8377	--	D140	14	--	--	--	--
12/16/98	85755-2532	--	D120	D49	D<5	--	--	D<5
03/10/99	90995-6106	--	D120	D28	--	--	--	--
06/15/99	3990294021	--	D110	32	--	--	--	--
09/20/99	3991971017	--	D160	D29	--	--	--	--
12/16/99	3993622020	--	120	D55	<10	--	--	<10
03/16/00	3001152019	--	D110	D130	--	--	--	--
06/13/00	3002633021	--	D74	D75	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

D = Compound identified in an analysis at a secondary dilution factor.

* = It is believed that this sample was inadvertently switched during the field event with the sample from monitoring well 87-10.

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: 87-11
 REVISION: 1/5/2010
 UNITS: ug/L

ELEVATION: top of casing - 667.17
 DEPTH: screen - 30 to 33

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
09/22/00	E261236	--	64	110	--	--	--	--
12/20/00	E268222	--	89	110	<1	--	--	1.1
03/21/01	E274387	--	84	73	--	--	--	--
06/14/01	E281027	--	72	56	--	--	--	--
09/13/01	E287746	--	89	34	--	--	--	--
12/19/01	E295718	--	17	99	<1	--	--	4.7
03/28/02	⁽¹⁾ -032802-TJ-020	--	63	92	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-031	--	17	-67.5	--	--	--	--
09/27/02	⁽¹⁾ -092702-JB-062	--	44	-120	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-084	--	46	-120	--	--	--	--
03/21/03	⁽¹⁾ -032103-JB-103	--	34	--	--	110	1.5	--
07/14/03	⁽¹⁾ -071403-SP-047	2.0 U	28	--	<2	42	<2	3.7
10/01/03	⁽¹⁾ -100103-JB-075	5.0 U	34	--	<5	130	1.5	5
12/18/03	⁽¹⁾ -121803-JB-113	4.0 U	11	--	<4	130	1.5	1.3
03/15/04	⁽¹⁾ -031504-BW-126	4.0 U	5.7	--	<4	97	1.5	8.3
10/04/04	⁽¹⁾ -100404-DCR-247	2.5 U	23	--	<2.5	56	2.7	9.1
12/01/04	⁽¹⁾ -120104-DCR-296	2.5 U	24	--	<2.5	66	0.85	4.3
04/05/05	⁽¹⁾ -040505-DCR-346	2.5 UJ	31	--	<2.5	56	1.7 J	1.2 J
06/29/05	⁽¹⁾ -062905-DCR-392	1.7 U	32	--	1.7 U	23	1.7	3.6 J
12/06/05	⁽¹⁾ -120605-DCR-575	1.0 U	40	--	0.39 J	51 J	0.94 J	2.5
09/11/06	⁽¹⁾ -091106-DR-016	1.7 UJ	42	--	1.7 U	15	0.74 J	2.7
05/09/07	⁽¹⁾ -050907-JY-067	1.4 U	50	1.4 U	1.4 U	14	1.4 U	2.6
10/15/07	⁽¹⁾ -101507-DR-105	1.0 U	38	1.0 U	0.75 J	19	0.19 J	4.1
04/21/08	⁽¹⁾ -042108-DR-138	1.0 UJ	27	1.0 U	0.65 J	25	0.49 J	4.1
10/06/08	⁽¹⁾ -100608-DR-194	1.0 UJ	34	--	0.33 J	13	1.0 U	4.5
*10/6/2008	⁽¹⁾ -100608-DR-195	1.0 UJ	36	--	0.34 J	13	0.21 J	4.8
04/07/09	⁽¹⁾ -040709-DR-243	1.7 U	43	--	1.7 U	15	1.7 U	2.3
10/08/09	⁽¹⁾ -100809-DR-309	1.0 UJ	35 J	--	0.29 J	14	0.24 J	4.7

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

*Duplicate

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: 87-13
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 664.24
DEPTH: screen - 40 to 43

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
06/08/88	E91248	2 U	10	<2	<2	--	--	<10
12/21/88	E11601	--	7	<2	--	--	--	--
03/16/89	E15525	--	9	<1	--	--	--	--
06/16/89	E21125	--	7.6	<1	--	--	--	--
09/20/89	E25604	--	5	<1	--	--	--	--
12/21/89	E31002	--	3	<1	<1	--	--	<1
03/16/90	E35826	--	6	<1	--	--	--	--
06/19/90	E42020	--	7	<1	--	--	--	--
09/14/90	E48224	--	7	<1	--	--	--	--
12/17/90	E54827	--	6	<2	<2	--	--	<10
03/11/91	E59933	--	6	<1	--	--	--	--
06/13/91	E67564	--	5	<1	--	--	--	--
09/12/91	E72986	--	3	<1	--	--	--	--
12/13/91	E07656	--	3	<1	<1	--	--	<1
03/13/92	E15391	--	5	<1	--	--	--	--
06/12/92	E23265	--	4.4	<1	--	--	--	--
09/11/92	E31920	--	3.1	<1	--	--	--	--
12/10/92	E40335	--	3	<1	<1	--	--	<1
03/11/93	E47630	--	2.8	<1	--	--	--	--
06/15/93	E56581	--	3.3	<1	--	--	--	--
09/15/93	E66052	--	3.5	<1	--	--	--	--
12/17/93	E75756	--	3	<1	<1	--	--	<1
03/16/94	E81250	--	2.7	<1	--	--	--	--
06/14/94	E89398	--	2.7	<1	--	--	--	--
09/14/94	E97450	--	2.4	<1	--	--	--	--
12/16/94	E106410	--	2.6	<1	<1	--	--	<1
03/17/95	E112948	--	3.2	<2	--	--	--	--
06/20/95	E120806	--	3.8	<2	--	--	--	--
09/14/95	E127393	--	2.4	<2	--	--	--	--
12/18/95	E134980	--	2.2	<1	<1	--	--	<1
03/19/96	E139852	--	2	<1	--	--	--	--
06/13/96	E146848	--	2.7	<1	--	--	--	--
09/13/96	E154131	--	1.9	<1	--	--	--	--
12/12/96	E162064	--	1.7	<1	<1	--	--	<1
03/13/97	E166222	--	2.1	<1	--	--	--	--
06/19/97	E172387	--	1.6	<1	--	--	--	--
09/11/97	E177746	--	2.1	<1	--	--	--	--
12/16/97	E184909	--	1.8	<1	<1	--	--	<1
03/13/98	E190822	--	<1	<1	--	--	--	--
06/16/98	82953-3406	--	2	<2	--	--	--	--
09/17/98	84367-8373	--	<1	<1	--	--	--	--
12/16/98	85755-2528	--	2	<1	<1	--	--	<1
03/10/99	90995-6098	--	2	<1	--	--	--	--
06/15/99	3990294022	--	2	<2	--	--	--	--
09/20/99	3991971016	--	2.3	<1	--	--	--	--
12/16/99	3993622018	--	2.1	<1	<1	--	--	<1

-- = Not analyzed

DCE = Dichloroethene

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 87-13 **ELEVATION:** top of casing - 664.24
REVISION: 1/5/2010 **DEPTH:** screen - 40 to 43
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152016	--	1.8	<1	--	--	--	--
06/13/00	3002633018	--	1.3	<1	--	--	--	--
09/22/00	E261238	--	1.9	<1	--	--	--	--
12/20/00	E268221	--	2.7	<1	<1	--	--	<1
03/21/01	E274385	--	1.8	<1	--	--	--	--
06/14/01	E281028	--	1.7	<1	--	--	--	--
09/13/01	E287749	--	1.8	<1	--	--	--	--
12/19/01	E295721	--	1.5	<1	<1	--	--	<1
03/28/02	⁽¹⁾ -032802-TJ-018	--	1.6	<1	--	--	--	--
*3/28/2002	⁽¹⁾ -032802-TJ-019	--	1.6	<1	--	--	--	--
06/26/02	⁽¹⁾ -062602-JB-028	--	1.0	<1	--	--	--	--
09/27/02	⁽¹⁾ -092702-JB-065	--	1.6	<1	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-082	--	1.7	<1	<1	--	--	<1
03/21/03	⁽¹⁾ -032103-JB-100	--	1.7	--	--	<1	<1	--
07/14/03	⁽¹⁾ -071403-SP-049	1.0 U	1.6	--	<1	<1	<1	<1
10/01/03	⁽¹⁾ -100103-JB-077	1.0 U	2.0	--	<1	<1	<1	<1
*10/1/2003	⁽¹⁾ -100103-JB-078	1.0 U	1.8	--	<1	<1	<1	<1
12/18/03	⁽¹⁾ -121803-JB-112	1.0 U	1.5	--	<1	<1	<1	<1
03/15/04	⁽¹⁾ -031504-BW-122	1.0 U	1.7	--	<1	<1	<1	<1
10/04/04	⁽¹⁾ -100404-DCR-241	1.0 U	1.9	--	<1	<1	<1	<1
*10/04/04	⁽¹⁾ -100404-DCR-242	1.0 U	1.8	--	<1	<1	<1	<1
11/30/04	⁽¹⁾ -113004-DCR-284	1.0 U	2.0	--	<1	<1	<1	<1
04/04/05	⁽¹⁾ -040405-DCR-333	1.0 U	2.1	--	<1	<1	<1	<1
06/27/05	⁽¹⁾ -062705-DCR-371	1.0 U	1.5	--	1.0 U	1.0 U	1.0 U	1.0 U
12/02/05	⁽¹⁾ -120205-DCR-506	1.0 UJ	1.4	--	1.0 U	0.28 J	1.0 U	1.0 U
12/02/05	⁽¹⁾ -120205-DCR-507	1.0 UJ	1.3	--	1.0 U	0.41 J	1.0 U	1.0 U
09/11/06	⁽¹⁾ -091106-DR-014	1.0 UJ	0.94 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/08/07	⁽¹⁾ -050807-JY-060	1.0 U	0.76 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/15/07	⁽¹⁾ -101507-DR-103	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/21/08	⁽¹⁾ -042108-DR-144	1.0 UJ	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	⁽¹⁾ -100608-DR-188	1.0 UJ	0.91	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-241	1.0 UJ	0.94	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	⁽¹⁾ -100809-DR-310	1.0 U	1.1	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

* Duplicate

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: 93-1
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 657.21
DEPTH: screen - 8.2

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
08/20/93	E63615	--	2.6	2.4	--	--	--	<1
12/17/93	E75757	--	2.7	3.1	--	--	--	<1
03/16/94	E81249	--	2.2	2.3	--	--	--	--
06/14/94	E89402	--	2.6	2.9	--	--	--	--
09/14/94	E97452	--	1.9	1.9	--	--	--	--
12/16/94	E106411	--	1.8	1.8	--	--	--	<1
03/17/95	E112949	--	2.8	2.3	--	--	--	--
06/20/95	E120807	--	3.3	3.3	--	--	--	--
09/14/95	E127392	--	1.2	1.6	--	--	--	--
12/18/95	E134983	--	1.1	1.4	--	--	--	<1
03/19/96	E139849	--	1.9	2.4	--	--	--	--
06/13/96	E146849	--	2.6	3.1	--	--	--	--
09/13/96	E154132	--	1.6	2.3	--	--	--	--
12/12/96	E161530	--	1.9	2.3	--	--	--	<1
03/13/97	E166226	--	2.3	1.8	--	--	--	--
06/19/97	E172388	--	2.4	3.1	--	--	--	--
09/11/97	E177747	--	2.1	2.6	--	--	--	--
12/16/97	E184913	--	1.7	3.1	--	--	--	1.3
03/13/98	E190826	--	<1	<1	--	--	--	--
06/16/98	82953-3410	--	1	J1	--	--	--	--
09/17/98	84367-8374	--	<1	<1	--	--	--	--
12/16/98	85755-2529	--	1	<1	--	--	--	<1
03/10/99	90995-6108	--	1	1	--	--	--	--
06/15/99	3990294024	--	2.3	2.3	--	--	--	--
09/20/99	3991971018	--	1.3	1.4	--	--	--	--
12/16/99	3993622019	--	<1	1.8	--	--	--	<1
03/16/00	3001152021	--	1	1.3	--	--	--	--
06/13/00	3002633022	--	<1	1.3	--	--	--	--
09/22/00	E261237	--	1	<1	--	--	--	--
12/20/00	E268225	--	2.2	5	--	--	--	<1
03/21/01	E274389	--	SI 2.2	SI 4	--	--	--	--
06/14/01	E281026	--	1.5	3.4	--	--	--	--
09/13/01	E287748	--	2.7	2.4	--	--	--	--
12/19/01	E295720	--	2.7	4.2	--	--	--	<1
03/28/02	⁽¹⁾ -032802-TJ-022	--	2.4	4.8	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-033	--	2.0	4.2	--	--	--	--
09/01/02	⁽¹⁾ -092702-JB-064	--	<1	<1	--	--	--	--
12/9/2002	⁽¹⁾ -120902-JB-080	--	2.0	~4.1	--	--	--	<1
3/21/2003	⁽¹⁾ -03/21/03-JB-101	--	1.8	--	--	3.2	<1	--
7/14/2003	⁽¹⁾ -07/14/03-SP-048	2.9	1.9	--	<1	4.2	<1	0.43
10/1/2003	⁽¹⁾ -100103-JB-079	1.9	1.4	--	<1	5.2	<1	0.60
12/18/2003	⁽¹⁾ -121803-JB-116	1.0 J	1.1	--	<1	3.1	<1	<1
3/15/2004	⁽¹⁾ -031504-BW-125	1.2	1.1	--	<1	1.5	<1	<1

-- = Not analyzed

J = Indicates an estimated value.

⁽¹⁾ Full sample number includes GW-17360

DCE = Dichloroethene

SI = Sample integrity suspect upon arrival, positive results should be considered estimated.

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: X-10
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing - 681.10
DEPTH: screen - 35 to 45

Date	Sample	Trichloroethene	1,2-Dichloroethene	1,1,1-Trichloroethane
08/22/89	E24442	1	--	--
09/20/89	E25605	<1	<1	40
10/13/89	E26924	<1	--	31
11/17/89	E29147	<1	--	33
12/21/89	E30988	<1	--	25
01/12/90	E31894	<1	--	--
02/16/90	E33917	<1	--	39
03/16/90	E35830	<1	--	22
04/12/90	E37257	<1	--	31
05/18/90	E39757	<1	--	31
06/18/90	E42006	<1	--	37
07/13/90	E44004	<1	--	41
08/20/90	E46573	<1	--	24
09/14/90	E48210	<1	--	30
10/12/90	E50163	<1	--	36
11/15/90	E52798	<1	--	17
12/17/90	E54830	<2	--	32
03/12/91	E59921	<1	<1	--
06/13/91	E67565	<1	--	<1
09/12/91	E72987	<1	--	<1
12/13/91	E07658	<1	--	<1
03/13/92	E15379	<1	--	5
06/12/92	E23269	<1	--	<1
09/11/92	E31907	<1	--	<1
12/10/92	E40330	<1	--	2
03/11/93	E47617	<1	--	<1
06/14/93	E57772	<1	--	<1
09/15/93	E66057	<1	--	3.6
12/17/93	E75748	<1	--	<1
03/16/94	E81251	<1	--	<1
06/14/94	E89405	<1	--	9
09/14/94	E97453	<1	--	<1
12/16/94	E106403	<1	--	<1
03/17/95	E112962	<1	--	<1
06/20/95	E120788	<1	--	3.8
09/14/95	E127395	<1	--	<1
12/19/95	E134984	<1	--	<1
03/19/96	E139854	<1	--	<1
06/13/96	E146834	<1	--	<1
09/13/96	E154136	1.2	--	<1
12/12/96	E161517	<1	--	<1
03/13/97	E166215	<1	--	<1
06/19/97	E172375	<1	--	3.7
09/11/97	E177741	1	--	<1
12/16/97	***	***	***	***
03/13/98	****	****	****	****

-- = Not analyzed

*** = Unable to sample due to construction interference.

**** = Well no longer exists.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: PW DISCH **ELEVATION:** top of casing - 678.47
REVISION: 1/5/2010 **DEPTH:** screen - 45 to 55
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
09/20/89	E25566	--	110	4	<1	--	--	<1	--
09/22/89	E25679	--	140	--	--	--	--	--	--
10/13/89	E26925	--	150	5	--	--	--	--	--
11/17/89	E29148	--	85	6	--	--	--	--	--
12/21/89	E31003	--	100	5	<1	--	--	1	--
01/12/90	E31895	--	110	<5	--	--	--	--	--
02/16/90	E33918	--	110	3	--	--	--	--	--
03/16/90	E35831	--	120	4	--	--	--	--	--
04/12/90	E37258	--	130	<5	--	--	--	--	--
05/18/90	E39758	--	180	1	--	--	--	--	--
06/18/90	E42007	--	170	<10	--	--	--	--	--
07/13/90	E44005	--	130	3	--	--	--	--	1820000
08/20/90	E46574	--	23	<1	--	--	--	--	1825000
09/14/90	E48211	--	130	4	--	--	--	--	1823000
10/12/90	E50164	--	160	<2	--	--	--	--	1650000
11/15/90	E52799	--	93	<1	--	--	--	--	1797000
12/17/90	E54828	--	140	5	<2	--	--	<10	2570000
01/15/91	--	--	--	--	--	--	--	--	1819000
02/20/91	--	--	--	--	--	--	--	--	1693000
03/11/91	E59920	--	86	<2	--	--	--	--	1922000
04/30/91	--	--	--	--	--	--	--	--	1713000
05/30/91	--	--	--	--	--	--	--	--	2096000
06/13/91	E67569	--	100	<5	--	--	--	--	1437000
07/31/91	--	--	--	--	--	--	--	--	2032000
08/31/91	--	--	--	--	--	--	--	--	1729000
09/12/91	E72988	--	86	6	--	--	--	--	1656000
10/31/91	--	--	--	--	--	--	--	--	1857000
11/30/91	--	--	--	--	--	--	--	--	1857000
12/13/91	E07657	--	75	4	<2	--	--	<2	1874000
01/31/92	--	--	--	--	--	--	--	--	1934000
02/28/92	--	--	--	--	--	--	--	--	1795000
03/13/92	E15386	--	73	4	--	--	--	--	2008000
04/30/92	--	--	--	--	--	--	--	--	++
05/31/92	--	--	--	--	--	--	--	--	++
06/30/92	--	--	--	--	--	--	--	--	++
07/31/92	--	--	--	--	--	--	--	--	3679000
08/13/92	E29153	--	63	3.7	--	--	--	--	2004000
09/11/92	E31915	--	62	3.3	--	--	--	--	2212000
10/31/92	--	--	--	--	--	--	--	--	1996000
11/30/92	--	--	--	--	--	--	--	--	2041000
12/10/92	E40333	--	61	2	<1	--	--	<1	1952000
01/31/93	--	--	--	--	--	--	--	--	1952000
02/28/93	--	--	--	--	--	--	--	--	1866000

-- = Not analyzed/measured DCE = Dichloroethene
 ++ = Recorded total gallons for April 1992 through July 1992 (2 weeks).
 # = Date reflects sampling day or last day of month; whereas total gallonage covers entire month.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: PW DISCH ELEVATION: top of casing - 678.47
 REVISION: 1/5/2010 DEPTH: screen - 45 to 55
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
03/11/93	E47624	--	40	2.2	--	--	--	--	2208000
04/30/93	--	--	--	--	--	--	--	--	2050000
05/31/93	--	--	--	--	--	--	--	--	2125000
06/14/93	E56577	--	44	3.6	--	--	--	--	1997000
07/31/93	--	--	--	--	--	--	--	--	1847000
08/31/93	--	--	--	--	--	--	--	--	2307000
09/15/93	E66026	--	47	2.8	--	--	--	--	1853000
10/31/93	--	--	--	--	--	--	--	--	1851000
11/30/93	--	--	--	--	--	--	--	--	2423000
12/17/93	E75750	--	32	2.8	<2	--	--	<2	1856000
03/11/93	E47624	--	40	2.2	--	--	--	--	2208000
04/30/93	--	--	--	--	--	--	--	--	2050000
05/31/93	--	--	--	--	--	--	--	--	2125000
06/14/93	E56577	--	44	3.6	--	--	--	--	1997000
07/31/93	--	--	--	--	--	--	--	--	1847000
08/31/93	--	--	--	--	--	--	--	--	2307000
09/15/93	E66026	--	47	2.8	--	--	--	--	1853000
10/31/93	--	--	--	--	--	--	--	--	1851000
11/30/93	--	--	--	--	--	--	--	--	2423000
12/17/93	E75750	--	32	2.8	<2	--	--	<2	1856000
03/16/94	E81242	--	42	2	--	--	--	--	2168000
04/11/94	--	--	--	--	--	--	--	--	1987000
05/11/94	--	--	--	--	--	--	--	--	2324000
06/14/94	E89394	--	39	1.7	--	--	--	--	1391000
07/13/94	E91965	--	32	--	--	--	--	--	1863000
09/07/94	--	--	--	--	--	--	--	--	1810000
09/14/94	E97437	--	29	1.3	--	--	--	--	--
10/05/94	--	--	--	--	--	--	--	--	1657000
11/09/94	--	--	--	--	--	--	--	--	1759000
12/07/94	--	--	--	--	--	--	--	--	1630000
12/16/94	E106405	--	28	2	<1	--	--	<1	--
01/04/95	--	--	--	--	--	--	--	--	1673000
02/08/95	--	--	--	--	--	--	--	--	2154000
03/08/95	--	--	--	--	--	--	--	--	1809000
03/17/95	E112960	--	24	1.3	--	--	--	--	--
04/05/95	--	--	--	--	--	--	--	--	1773000
05/03/95	--	--	--	--	--	--	--	--	1760000
06/07/95	--	--	--	--	--	--	--	--	2152000
06/20/95	E120792	--	23	<2	--	--	--	--	--
07/05/95	--	--	--	--	--	--	--	--	1521000
08/03/95	--	--	--	--	--	--	--	--	1770000
09/07/95	--	--	--	--	--	--	--	--	2138000
09/14/95	E127384	--	16	<2	--	--	--	--	--
10/04/95	--	--	--	--	--	--	--	--	1609000

-- = Not analyzed/measured DCE = Dichloroethene
 # = Date reflects sampling day or last day of month; whereas total gallonage covers entire month.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: PW DISCH
 REVISION: 1/5/2010
 UNITS: ug/L
 ELEVATION:
 DEPTH:
 top of casing - 678.47
 screen - 45 to 55

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
11/01/95	--	--	--	--	--	--	--	--	1658000
12/06/95	--	--	--	--	--	--	--	--	2703000
12/18/95	E134977	--	13	<1	<1	--	--	<1	--
01/03/96	--	--	--	--	--	--	--	--	1565000
02/07/96	--	--	--	--	--	--	--	--	2084000
03/06/96	--	--	--	--	--	--	--	--	1648000
03/19/96	E139843	--	12	<1	--	--	--	--	--
04/03/96	--	--	--	--	--	--	--	--	1596000
05/01/96	--	--	--	--	--	--	--	--	1656000
06/05/96	--	--	--	--	--	--	--	--	2131000
06/13/96	E146844	--	14	<1	--	--	--	--	--
06/26/96	--	--	--	--	--	--	--	--	1716000
07/31/96	--	--	--	--	--	--	--	--	2068000
09/04/96	--	--	--	--	--	--	--	--	2071000
09/13/96	E154125	--	15	<1	--	--	--	--	--
10/02/96	--	--	--	--	--	--	--	--	1665000
10/30/96	--	--	--	--	--	--	--	--	1614000
12/04/96	--	--	--	--	--	--	--	--	2027000
12/13/96	E161533	--	13	<1	<1	--	--	<1	--
12/31/96	--	--	--	--	--	--	--	--	1568000
01/29/97	--	--	--	--	--	--	--	--	1493000
02/26/97	--	--	--	--	--	--	--	--	1639000
03/13/97	E166210	--	9.3	<1	--	--	--	--	--
03/26/97	--	--	--	--	--	--	--	--	1636000
04/30/97	--	--	--	--	--	--	--	--	1704000
05/28/97	--	--	--	--	--	--	--	--	1596000
06/19/97	E172382	--	11	<1	--	--	--	--	--
07/02/97	--	--	--	--	--	--	--	--	2037000
08/06/97	--	--	--	--	--	--	--	--	1967000
09/04/97	--	--	--	--	--	--	--	--	1633000
09/11/97	E177753	--	9.4	<1	--	--	--	--	--
10/01/97	--	--	--	--	--	--	--	--	1541000
11/05/97	--	--	--	--	--	--	--	--	1690000
12/03/97	--	--	--	--	--	--	--	--	1458000
12/16/97	E184906	--	7.2	<1	<1	--	--	<1	--
12/31/97	--	--	--	--	--	--	--	--	1512000
01/28/98	--	--	--	--	--	--	--	--	1514000
02/25/98	--	--	--	--	--	--	--	--	1483000
03/12/98	E190818	--	5.9	<1	--	--	--	--	--
03/26/98	--	--	--	--	--	--	--	--	1544000
04/29/98	--	--	--	--	--	--	--	--	1744000
05/27/98	--	--	--	--	--	--	--	--	1497000
06/16/98	82953-3401	--	7	<2	--	--	--	--	--
07/01/98	--	--	--	--	--	--	--	--	1908000

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**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: PW DISCH **ELEVATION:** top of casing - 678.47
REVISION: 1/5/2010 **DEPTH:** screen - 45 to 55
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
07/29/98	--	--	--	--	--	--	--	--	1512000
09/02/98	--	--	--	--	--	--	--	--	1896000
09/17/98	84367-8367	--	5	<1	--	--	--	--	--
09/30/98	--	--	--	--	--	--	--	--	1515000
10/28/98	--	--	--	--	--	--	--	--	1419000
12/02/98	--	--	--	--	--	--	--	--	1661000
12/16/98	85755-2522	--	4	<1	<1	--	--	<1	--
12/31/98	--	--	--	--	--	--	--	--	1235000
01/27/99	--	--	--	--	--	--	--	--	1416000
02/24/99	--	--	--	--	--	--	--	--	1379000
03/18/99	911113-5423	--	4	<1	--	--	--	--	--
03/24/99	--	--	--	--	--	--	--	--	1180000
04/29/99	--	--	--	--	--	--	--	--	1778000
06/01/99	--	--	--	--	--	--	--	--	1705000
06/15/99	3990294017	--	4.7	<2	--	--	--	--	--
06/30/99	--	--	--	--	--	--	--	--	1736000
07/28/99	--	--	--	--	--	--	--	--	1741000
09/01/99	--	--	--	--	--	--	--	--	2049000
09/20/99	3991971008	--	4.5	<1	--	--	--	--	--
09/29/99	--	--	--	--	--	--	--	--	1636000
11/03/99	--	--	--	--	--	--	--	--	2017000
12/01/99	--	--	--	--	--	--	--	--	1624000
12/16/99	3993622015	--	3.5	<1	<1	--	--	<1	--
12/29/99	--	--	--	--	--	--	--	--	1634000
02/02/00	--	--	--	--	--	--	--	--	1958000
03/01/00	--	--	--	--	--	--	--	--	1581000
03/16/00	3001152011	--	2.7	<1	--	--	--	--	--
03/29/00	--	--	--	--	--	--	--	--	1602000
04/25/00	--	--	--	--	--	--	--	--	1576000
05/31/00	--	--	--	--	--	--	--	--	2052000
06/13/00	3002633015	--	2.1	<1	--	--	--	--	--
06/28/00	--	--	--	--	--	--	--	--	1619000
07/26/00	--	--	--	--	--	--	--	--	1605000
08/30/00	--	--	--	--	--	--	--	--	1968000
09/22/00	E261227	--	3.1	<1	--	--	--	--	--
11/01/00	--	--	--	--	--	--	--	--	1819000
11/29/00	--	--	--	--	--	--	--	--	1475000
12/20/00	E268217	--	4.8	<1	<1	--	--	<1	--
01/03/01	--	--	--	--	--	--	--	--	2127000
02/26/01	--	--	--	--	--	--	--	--	1515000
03/21/01	E274382	--	3.2	<1	--	--	--	--	--
03/28/01	--	--	--	--	--	--	--	--	2063000
04/24/01	--	--	--	--	--	--	--	--	1637000
05/30/01	--	--	--	--	--	--	--	--	1987000

-- = Not analyzed/measured DCE = Dichloroethene
= Date reflects sampling day or last day of month; whereas total gallonage covers entire month.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: PW DISCH ELEVATION: top of casing - 678.47
 REVISION: 1/5/2010 DEPTH: screen - 45 to 55
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Gallons Pumped #
06/13/01	E281018	--	4.3	<1	--	--	--	--	--
06/25/01	--	--	--	--	--	--	--	--	1475000
07/16/01	--	--	--	--	--	--	--	--	1359000
08/22/01	--	--	--	--	--	--	--	--	673000
09/13/01	E287742	--	4.5	<1	--	--	--	--	1605000
10/09/01	--	--	--	--	--	--	--	--	1379000
11/13/01	--	--	--	--	--	--	--	--	2219000
12/19/01	E295710	--	5.6	<1	<1	--	--	<1	1558000
03/28/02	⁽¹⁾ -032802-TJ-011	--	5.8	<1	--	--	--	--	--
06/27/02	--	--	--	--	--	--	--	--	--
09/26/02	⁽¹⁾ -092602-JB-055	--	6.1	<1	--	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-078	--	5.9	<1.1	<1	--	--	<1	--
03/21/03	⁽¹⁾ -032103-JB-098	--	3.7	--	--	<1	<1	--	--
07/15/03	⁽¹⁾ -071503-SP-058	1.0 U	3	--	<1	<1	<1	<1	--
09/30/03	⁽¹⁾ -093003-JB-072	1.0 U	2.1	--	<1	<1	<1	<1	--
12/18/03	⁽¹⁾ -121803-JB-110	0.14 J	1.7	--	<1	<1	<1	<1	--
03/15/04	⁽¹⁾ -031504-BW-131	1.0 U	1.6	--	<1	<1	<1	<1	--
10/06/04	⁽¹⁾ -100604-DCR-268	1.0 U	1.5	--	<1	<1	<1	<1	--
12/01/04	⁽¹⁾ -120104-DCR-297	1.0 U	1.6	--	<1	<1	<1	<1	--
04/04/05	--	--	--	--	--	--	--	--	--

-- = Not analyzed/measured DCE = Dichloroethene
 # = Date reflects sampling day or last day of month; whereas total gallonage covers entire month.
⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary**

SITE: C-1 ELEVATION: top of culvert - 663.20
 REVISION: 1/5/2010
 UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Copper	Total Hardness
12/21/88	E11604	--	3	<2	--	--	--	--
03/17/89	E15514	--	2.4	<1	--	--	--	--
06/15/89	E21126	--	<1	<1	--	--	--	--
09/22/89	E25727	--	1	<1	--	--	--	--
12/21/89	E30994	--	<1	<1	--	--	--	--
03/16/90	E35827	--	2	<1	--	--	--	--
06/19/90	E42021	--	1	<1	--	--	--	--
09/14/90	E48225	--	<1	<1	--	--	--	--
12/17/90	E54819	--	4	<2	--	--	--	--
03/11/91	E59917	--	5	<1	--	--	--	--
06/13/91	E67566	--	4	<1	--	--	--	--
09/12/91	E72973	--	4	<1	--	--	--	--
12/13/91	E07648	--	5	<1	--	--	--	--
03/13/92	E15389	--	4	<1	--	--	--	--
06/12/92	E23263	--	2.6	<1	--	--	--	--
09/11/92	E31918	--	1.7	<1	--	--	--	--
12/10/92	E40327	--	2	<1	--	--	--	--
03/11/93	E47628	--	2.1	<1	--	--	--	--
06/15/93	E56590	--	2.1	<1	--	--	--	--
09/15/93	E66029	--	2	<1	--	--	--	--
12/17/93	E75746	--	1.7	<1	--	--	--	--
03/16/94	E81243	--	2.1	<1	--	--	--	--
06/14/94	E89395	--	1.1	<1	--	--	--	--
09/14/94	E97441	--	<1	<1	--	--	--	--
12/16/94	E106400	--	1.4	<1	--	--	--	--
03/17/95	E112944	--	1.8	<2	--	--	--	--
06/20/95	E120793	--	1.1	<2	--	--	--	--
09/14/95	E127385	--	<1	<2	--	--	--	--
12/18/95	E134967	--	<1	<1	--	--	--	--
03/19/96	E139844	--	<1	<1	--	--	--	--
06/13/96	E146846	--	1.3	<1	--	--	--	--
09/13/96	E154130	--	<1	<1	--	--	--	--
12/12/96	E161524	--	<1	<1	--	--	--	--
03/13/97	E166211	--	1.6	<1	--	--	--	--
06/19/97	E172383	--	<1	<1	--	--	--	--
09/11/97	E177743	--	<1	<1	--	--	--	--
12/16/97	E184902	--	<1	<1	--	--	--	--
03/12/98	E190821	--	<1	<1	--	--	--	--
06/16/98	82953-3398	--	<1	<2	--	--	--	--
09/17/98	84367-8365	--	<1	<1	--	--	--	--
12/16/98	85755-2521	--	<1	<1	--	--	--	--
03/10/99	90995-6092	--	<1	<1	--	--	--	--
06/15/99	3990294013	--	<1	<2	--	--	--	--
09/20/99	3991971007	--	<1	<1	--	--	--	--
12/16/99	3993622013	--	<1	<1	--	--	--	--

-- Not analyzed

DCE = Dichloroethene

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary**

SITE: C-1
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION:

top of culvert - 663.20

Date	Sample	PCE	TCE	1,2-DCE	cis-1,2-DCE	trans-1,2-DCE	Total Copper	Total Hardness
03/16/00	3001152010	--	<1	<1	--	--	--	--
06/13/00	3002633012	--	<1	1.2	--	--	--	--
09/22/00	E261226	--	<1	<1	--	--	--	--
12/20/00	E268216	--	<1	<1	--	--	--	--
03/21/01	E274381	--	1.4	<1	--	--	--	--
06/13/01	E281017	--	2.3	2.5	--	--	--	--
09/13/01	E287741	--	1.3	<1	--	--	<20	292000
12/19/01	E295709	--	<1	<1	--	--	<20	DL 104000
03/28/02	⁽¹⁾ -032802-TJ-015	--	1.9	1.8	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-034	--	1.1	<1	--	--	--	--
09/26/02	⁽¹⁾ -092602-JB-056	--	<1	<1	--	--	--	--
12/09/02	⁽¹⁾ -120902-JB-086	--	<1	<1	--	--	--	--
*12/9/2002	⁽¹⁾ -120902-JB-087	--	<1	<1	--	--	<1	<1
03/21/03	⁽¹⁾ -032103-JB-106	--	<1	--	<1	<1	--	--
07/14/03	⁽¹⁾ -071403-SP-050	1.0 U	<1	--	<1	<1	--	--
10/01/03	⁽¹⁾ -100103-JB-080	2.0	1.4	--	5.2	<1	--	--
12/18/03	⁽¹⁾ -121803-JB-108	0.63 J	<1	--	<1	<1	--	--
03/15/04	⁽¹⁾ -031504-BW-134	2.8	<1	--	<1	<1	--	--
10/06/04	⁽¹⁾ -100604-DCR-278	0.59 J	<1	--	<1	<1	--	--
12/02/04	⁽¹⁾ -120204-DCR-318	0.66 J	<2	--	<1	<1	--	--
04/05/05	⁽¹⁾ -040505-DCR-342	9.8 J	1.4	--	1.4	<1	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-388	2.8	0.61 J	--	1.0 U	0.58 J	1.0 U	1.0 U
12/06/05	⁽¹⁾ -120605-DCR-388	0.99 J	1.9	--	3.1 J	1.0 U	--	--
09/12/06	⁽¹⁾ -091206-DR-038	1.0 J	0.5 J	--	0.33 J	1.0 U	--	--
05/08/07	⁽¹⁾ -050807-JY-052	1.5	2.7	1.0 U	4.5	1.0 U	--	--
10/15/07	⁽¹⁾ -101507-DR-095	1.4	0.47 J	1.0 U	0.43 J	1.0 U	--	--
04/21/08	⁽¹⁾ -042108-DR-150	9.1 J	1.5	1.0 U	1.0 U	1.0 U	--	--
10/06/08	⁽¹⁾ -100608-DR-198	7.6 J	1.5	--	2.2	1.0 U	--	--
10/06/08	⁽¹⁾ -100608-DR-199	7.7 J	1.5	--	2.1	1.0 U	--	--
04/06/09	⁽¹⁾ -040609-DR-235	8.2	1.3	--	1.9	1.0 U	--	--
10/06/09	⁽¹⁾ -100609-DR-276	4.1	0.9 J	--	1.1	1.0 U	--	--
*10/6/2009	⁽¹⁾ -100609-DR-277	4.3	1	1.0 U	1.1	1.0 U	--	--

DL = The detection limit for this sample and corresponding analysis were elevated due to insufficient sample volume received.

-- Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

* Duplicate

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

ELEVATION: top of culvert - 657.02

SITE: C-2
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
12/21/88	E11602	--	4	4	--	--	--	--
03/17/89	E15515	--	3.9	3.8	--	--	--	--
06/15/89	E21127	--	3	3.7	--	--	--	--
09/22/89	E25728	--	3	4	--	--	--	--
12/21/89	E30995	--	2	4	--	--	--	--
03/16/90	E35828	--	3	5	--	--	--	--
06/19/90	E42022	--	3	4	--	--	--	--
09/14/90	E48226	--	3	5	--	--	--	--
12/17/90	E54820	--	4	5	--	--	--	--
03/11/91	E59918	--	4	<1	--	--	--	--
06/13/91	E67567	--	4	6	--	--	--	--
09/12/91	E72974	--	3	4	--	--	--	--
12/13/91	E07649	--	3	4	--	--	--	--
03/13/92	E15390	--	4	5	--	--	--	--
06/12/92	E23268	--	3.9	8.6	--	--	--	--
09/11/92	E31923	--	3.3	6.8	--	--	--	--
12/10/92	E40328	--	3	3	--	--	--	--
03/11/93	E47629	--	1.8	1.1	--	--	--	--
06/15/93	E56582	--	3.2	4.5	--	--	--	--
09/15/93	E66051	--	4.6	9.8	--	--	--	--
12/17/93	E75749	--	2.8	4.4	--	--	--	--
03/16/94	E81248	--	4.1	7.7	--	--	--	--
06/14/94	E89401	--	1.9	1.9	--	--	--	--
09/14/94	E97449	--	2.3	3.8	--	--	--	--
12/16/94	E106402	--	2.4	3.4	--	--	--	--
03/17/95	E112945	--	3	4.4	--	--	--	--
06/20/95	E120797	--	2.3	3.6	--	--	--	--
09/14/95	E127387	--	1.5	2.7	--	--	--	--
12/18/95	E134968	--	1.9	3.6	--	--	--	--
03/19/96	E139848	--	<1	<1	--	--	--	--
06/13/96	E146847	--	2.8	4.7	--	--	--	--
09/13/96	E154129	--	2.5	4.8	--	--	--	--
12/12/96	E161525	--	2.5	4.2	--	--	--	--
03/13/97	E166221	--	3.1	4.5	--	--	--	--
06/19/97	E172384	--	1.6	4.1	--	--	--	--
09/11/97	E177744	--	2.3	4.2	--	--	--	--
12/16/97	E184908	--	2.1	4.4	--	--	--	--
03/12/98	E190820	--	<1	2.7	--	--	--	--
06/16/98	82953-3405	--	1	2	--	--	--	--

DCE = Dichloroethene

-- = Not analyzed

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

ELEVATION: top of culvert - 657.02

**SITE: C-2
REVISION: 1/5/2010
UNITS: ug/L**

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
09/17/98	84367-8371	--	<1	1	--	--	--	--
12/16/98	85755-2558	--	2	2	--	--	--	--
03/10/99	90995-6097	--	1	2	--	--	--	--
06/15/99	3990294019	--	1.9	2.4	--	--	--	--
09/20/99	3991971013	--	2	2.3	--	--	--	--
12/16/99	3993622016	--	1.8	2.4	--	--	--	--
03/16/00	3001152015	--	1.7	2.4	--	--	--	--
06/13/00	3002633016	--	2	4.2	--	--	--	--
09/22/00	E261228	--	2.5	8.9	--	--	--	--
12/20/00	E268219	--	3.2	7.3	--	--	--	--
03/21/01	E274383	--	2	4.8	--	--	--	--
06/14/01	E281023	--	2.5	5.2	--	--	--	--
09/13/01	E287744	--	2.8	2.8	--	--	--	--
12/19/01	E295716	--	<1	<1	--	--	--	--
03/28/02	(1)-032802-TJ-017	--	2.4	5.2	--	--	--	--
06/27/02	(1)-062702-JB-030	--	1.9	3.9	--	--	--	--
09/26/02	(1)-092602-JB-057	--	2.2	~3.8	--	--	--	--
12/09/02	(1)-120902-JB-081	--	2.0	~4.0	--	--	--	--
03/21/03	(1)-0321/03-JB-102	--	2.1	--	--	--	--	--
07/14/03	(1)-0714/03-SP-051	0.89 J	1.6	--	<1	4.5	<1	<1
10/01/03	(1)-100103-JB-081	1.9	1.4	--	<1	3.5	<1	0.70
12/18/03	(1)-121803-JB-109	0.61 J	<1	--	<1	5.2	<1	<1
03/15/04	(1)-031504-BW-130	1.6	1.5	--	<1	4	<1	<1
10/06/04	(1)-100604-DCR-279	1.2	1.6	--	<1	3	<1	0.42
12/02/04	(1)-120104-DCR-319	1.7	1.9	--	<1	4.7	<1	0.35
04/05/05	(1)-040505-DCR-343	4.4 J	2.5	--	<1	6.8	0.18 J	0.61 J
06/28/05	(1)-062805-DCR-389	1.3	1.5	--	1.0 U	3.4	1.0 U	0.29 J
12/06/05	(1)-120605-DCR-583	0.26 J	0.30 J	--	1.0 U	1.0 U J	1.0 U	1.0 U
09/12/06	(1)-091206-DR-039	1.1 J	1.3	--	1.0 U	2.8 J	1.0 U	0.44 J
05/08/07	(1)-050807-JY-053	3.9	1.7	1.0 U	1.0 U	4	1.0 U	0.37 J
10/15/07	(1)-101507-DR-096	1.4	1.4	1.0 U	1.0 U	2.2	1.0 U	0.27 J
04/21/08	(1)-042108-DR-145	1.0 U J	0.92 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	(1)-100608-DR-187	3.5 J	1.2	--	1.0 U	2.3	1.0 U	0.22 J
04/06/09	(1)-040609-DR-236	2.7	0.96 J	--	1.0 U	2	1.0 U	0.29 J
10/06/09	(1)-100609-DR-278	1.7	1.1	--	1.0 U	1.6	1.0 U	0.24 J

DCE = Dichloroethene

-- = Not analyzed

(1) Full sample number includes GW-17360

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: C-3
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
12/21/88	E11603	--	5	11	--	--	--	--
03/16/89	E15516	--	9.1	16	--	--	--	--
06/15/89	E21128	--	2.6	3.7	--	--	--	--
09/22/89	E25729	--	3	4	--	--	--	--
12/21/89	E30996	--	3	4	--	--	--	--
03/16/90	E35829	--	2	8	--	--	--	--
06/19/90	E42023	--	2	6	--	--	--	--
09/14/90	E48227	--	2	4	--	--	--	--
12/17/90	E54821	--	5	9	--	--	--	--
03/11/91	E59919	--	5	<1	--	--	--	--
06/13/91	E67568	--	4	4	--	--	--	--
09/12/91	E72975	--	4	6	--	--	--	--
12/13/91	E07650	--	3	11	--	--	--	--
03/13/92	E15392	--	3	6	--	--	--	--
06/12/92	E23264	--	3.2	4.6	--	--	--	--
09/11/92	E31919	--	3	3.3	--	--	--	--
12/11/92	E40329	--	3	4	--	--	--	--
03/11/93	E47633	--	1.8	1.3	--	--	--	--
06/15/93	E56580	--	2.9	12	--	--	--	--
09/15/93	E66048	--	3.7	4.1	--	--	--	--
12/17/93	E75747	--	3	5.2	--	--	--	--
03/16/94	E81245	--	3.3	4.4	--	--	--	--
06/14/94	E89397	--	1.7	2.3	--	--	--	--
09/14/94	E97447	--	1.5	2.8	--	--	--	--
12/16/94	E106401	--	2	2.1	--	--	--	--
03/17/95	E112946	--	3.3	6.3	--	--	--	--
06/20/95	E120799	--	2.9	4.4	--	--	--	--
09/14/95	E127386	--	1.8	2.4	--	--	--	--
12/18/95	E134969	--	2.8	4.2	--	--	--	--
03/19/96	E139850	--	2.8	4.8	--	--	--	--
06/13/96	E146852	--	3.9	8.3	--	--	--	--
09/13/96	E154133	--	3.5	5.5	--	--	--	--
12/12/96	E161529	--	4.2	4.3	--	--	--	--
03/13/97	E166223	--	4.1	7.5	--	--	--	--
06/19/97	E172389	--	2.1	5.7	--	--	--	--
09/11/97	E177750	--	3	4.9	--	--	--	--
12/16/97	E184912	--	2.8	4.3	--	--	--	--
03/13/98	E190825	--	2.4	6	--	--	--	--
06/16/98	82953-3409	--	1	2	--	--	--	--
09/17/98	84367-8375	--	1	2	--	--	--	--
12/16/98	85755-2530	--	2	2	--	--	--	--
03/10/99	90995-6107	--	3	3	--	--	--	--
06/15/99	3990294023	--	2.1	3.3	--	--	--	--
09/20/99	3991971019	--	1.8	2.6	--	--	--	--
12/16/99	3993622021	--	1.1	1.6	--	--	--	--

-- = Not analyzed

DCE = Dichloroethene

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: C-3
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
03/16/00	3001152018	--	1.2	1.8	--	--	--	--
06/13/00	3002633019	--	2.4	5	--	--	--	--
09/22/00	E261229	--	2.6	7.8	--	--	--	--
12/20/00	E268223	--	4	11	--	--	--	--
03/21/01	E274388	--	2.9	9.7	--	--	--	--
06/14/01	E281025	--	3.9	9.5	--	--	--	--
09/13/01	E287747	--	4.2	5.2	--	--	--	--
12/19/01	E295719	--	<1	<1	--	--	--	--
03/28/02	⁽¹⁾ -032802-TJ-016	--	3.8	9.8	--	--	--	--
06/27/02	⁽¹⁾ -062702-JB-029	--	2.3	6.2	--	--	--	--
09/26/02	⁽¹⁾ -092602-JB-058	--	2.8	-6.5	--	--	--	--
12/9/2002	⁽¹⁾ -120902-JB-085	--	2.4	-6.6	--	--	--	--
3/21/2003	⁽¹⁾ -032103-JB-105	--	2.5	--	--	7.9	<1	--
7/14/2003	⁽¹⁾ -071403-SP-052	2.3	1.6	--	<1	7.4	<1	1.1
10/1/2003	⁽¹⁾ -100103-JB-082	1.9	1.5	--	<1	5.3	<1	0.79
12/18/2003	⁽¹⁾ -121803-JB-107	0.60 J	<1	--	<1	<1	<1	<1
3/15/2004	⁽¹⁾ -031504-BW-128	1.0 U	<1	--	<1	<1	<1	<1
10/6/2004	⁽¹⁾ -100604-DCR-280	2.3	1.3	--	<1	4.2	<1	1.0
12/2/2004	⁽¹⁾ -120204-DCR-320	3.0	1.8	--	<1	6.3	<1	0.58
04/05/05	⁽¹⁾ -040505-DCR-344	7.2 J	2.4	--	<1	9.4	0.23 J	0.99 J
06/29/05	⁽¹⁾ -062905-DCR-391	3.4	2	--	1.0 U	7.4	0.17 J	0.94 J
12/06/05	⁽¹⁾ -120605-DCR-578	2.7	1.8	--	1.0 U	4.4 J	1.0 U	0.55 J
09/12/06	⁽¹⁾ -091206-DR-040	2.6 J	1.6	--	1.0 U	4.6 J	1.0 U	1
5/8/2007	⁽¹⁾ -050807-JY-054	8.6	2.5	1.0 U	1.0 U	7	1.0 U	0.92 J
10/15/2007	⁽¹⁾ -101507-DR-097	3.7	1.6	1.0 U	1.0 U	3.5	1.0 U	0.57 J
4/21/2008	⁽¹⁾ -042108-DR-140	4.5 J	1.1	1.0 U	1.0 U	3	1.0 U	0.46 J
10/6/2008	⁽¹⁾ -100608-DR-192	7.2 J	2	--	1.0 U	4.3	1.0 U	0.53 J
4/6/2009	⁽¹⁾ -040609-DR-237	6.1	1.3	--	1.0 U	3.4	1.0 U	0.57 J
10/6/2009	⁽¹⁾ -100609-DR-2279	4.6	1.3	--	1.0 U	2.6	1.0 U	0.62 J

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW1-03
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 30 to 35

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	⁽¹⁾ -071403-SP-045	72	1.6	--	<2	2.7	<2	<2
10/03/03	⁽¹⁾ -100303-JB-091	83	1.7	--	<3.3	2.6	<3.3	<3.3
12/18/03	⁽¹⁾ -121803-JB-118	86	1.4	--	<3.3	0.91	<3.3	<3.3
03/16/04	⁽¹⁾ -031604-BW-145	110	1.1	--	<4	<4	<4	<4
10/05/04	⁽¹⁾ -100504-DCR-260	190	<8.3	--	<8.3	<8.3	<8.3	<8.3
12/03/04	⁽¹⁾ -120304-DCR-324	110	1.9	--	<5.0	3.0	<5.0	<5.0
04/06/05	⁽¹⁾ -040605-DCR-364	140	3.5 J	--	<5.0	<5.0	<5.0	<5.0
06/28/05	⁽¹⁾ -062805-DCR-383	68	1.2 J	--	3.3 U	3.3 U	3.3 U	3.3 U
12/04/05	⁽¹⁾ -120405-DCR-560	180	2.7 J	--	6.7 U	5.8 J	6.7 U	6.7 U
09/12/06	⁽¹⁾ -091206-DR-034	62 J	3.3	--	2.0 U	3.9 J	2.0 U	2.0 U
05/09/07	⁽¹⁾ -050907-JY-082	280	5.8 J	8.7 U	8.7 U	13	8.7 U	8.7 U
10/16/07	⁽¹⁾ -101607-DR-123	320	7.1 J	10 U	10 U	15	10 U	10 U
04/22/08	⁽¹⁾ -042208-DR-172	310 J	7.6 J	10 U	10 U	3.7 J	10 U	10 U
10/08/08	⁽¹⁾ -100808-DR-228	340	7.0 J	--	10 U	7.1 J	10 U	10 U
04/07/09	⁽¹⁾ -040709-DR-259	380 J	7.3 J	--	11 U	3 J	11 U	11 U
10/06/09	⁽¹⁾ -100609-DR-289	480	7 J	--	17 U	17 U	17 U	17 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW2-03
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 22 to 27

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	⁽¹⁾ -071403-SP-044	14	<1	--	<1	<1	<1	<1
10/03/03	⁽¹⁾ -100303-JB-092	13	<1	--	<1	<1	<1	<1
12/18/03	⁽¹⁾ -121803-JB-117	7.2	<1	--	<1	<1	<1	<1
03/16/04	⁽¹⁾ -031604-BW-146	8.8	<2	--	<1	<1	<1	<1
10/05/04	⁽¹⁾ -100504-DCR-261	11	0.65	--	<1	1.2	<1	<1
12/03/04	⁽¹⁾ -120304-DCR-323	13	1.2	--	<1	0.74	<1	<1
04/07/05	⁽¹⁾ -040705-DCR-368	12	<1	--	<1	<1	<1	<1
06/29/05	⁽¹⁾ -062905-DCR-399	16	0.46 J	--	1.0 U	0.21 J	1.0 U	1.0 UJ
12/06/05	⁽¹⁾ -120605-DCR-573	15	1.4 J	--	1.0 U	0.85 J	1.0 U	1.0 UJ
09/12/06	⁽¹⁾ 091206-JY-033	10 J	0.49 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ 050907-JY-080	10	0.34 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	⁽¹⁾ 101607-DR-124	8.2	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	⁽¹⁾ 042208-DR-171	7.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/08/08	⁽¹⁾ 100808-DR-226	8.6	0.44 J	--	1.0 U	1.0 U	1.0 U	1.0 U
*10/8/2008	⁽¹⁾ 100808-DR-227	8	0.42 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/08/09	⁽¹⁾⁻⁰⁴ 0809-DR-274	9.1	0.29 J	--	1.0 U	1.0 U	1.0 U	1.0 U
10/06/09	⁽¹⁾⁻¹⁰⁰⁶ 09-DR-288	9.3	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

*Duplicate

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW3-03
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 25 to 30

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/15/03	⁽¹⁾ -071503-SP-065	0.85 J	<1	--	<1	<1	<1	<1
10/03/03	⁽¹⁾ -100303-JB-093	0.90 J	<1	--	<1	<1	<1	<1
12/18/03	⁽¹⁾ -121803-JB-119	0.78 J	<1	--	<1	<1	<1	<1
03/16/04	⁽¹⁾ -031604-BW-144	0.87 J	<2	--	<1	<1	<1	<1
10/05/04	⁽¹⁾ -100504-DCR-262	1.0	<1	--	<1	<1	<1	<1
12/03/04	⁽¹⁾ -120304-DCR-325	1.2	<1	--	<1	<1	<1	<1
04/07/05	⁽¹⁾ -040705-DCR-369	1.1	<1	--	<1	<1	<1	<1
06/29/05	⁽¹⁾ -062905-DCR-397	1.0	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 UJ
06/29/05	⁽¹⁾ -062905-DCR-398	0.96 J	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 UJ
12/06/05	⁽¹⁾ -120605-DCR-579	0.84J	1.0 U	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	⁽¹⁾ -091206-JY-035	0.75 J	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-083	0.73 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	⁽¹⁾ -101607-DR-119	0.73 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	⁽¹⁾ -042208-DR-162	0.76 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-212	0.74 J	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-258	1	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
10/07/09	⁽¹⁾ -100709-DR-302	1.2	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW4-03
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 52 to 57

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	(1)-071403-SP-043	0.58 J	2	--	<1	<1	<1	<1
10/09/03	(1)-100903-JB-089	1.0 U	0.28	--	<1	<1	<1	<1
12/18/03	(1)-121803-JB-106	0.78 J	1.2	--	<1	<1	<1	<1
03/15/04	(1)-031504-BW-127	0.84 J	1.1	--	<1	<1	<1	<1
10/05/04	(1)-100504-DCR-251	0.89 J	2.4	--	0.48	1.1	0.42	<1
12/01/04	(1)-120104-DCR-287	1.1	5.7	--	0.81	2.6	0.42	<2
04/05/05	(1)-040505-DCR-337	1.2 J	3.9	--	0.50 J	1.3	0.55 J	0.27 J
06/27/05	(1)-062705-DCR-375	0.99 J	4.9	--	0.55 J	1.4	0.58 J	1.0 U
12/03/05	(1)-120305-DCR-552	0.89 J	14	--	0.84 J	2.0 J	1.0	0.26 J
09/12/06	(1)-091206-JY-025	0.95 J	13	--	0.4 J	0.56 J	0.35 J	1.0 UJ
05/09/07	(1)-050907-JY-071	0.91 J	14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	(1)-101607-DR-110	0.78 J	6.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	(1)-042208-DR-153	0.83 J	7.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	(1)-100708-DR-200	0.61 J	2.5	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	(1)-040709-DR-249	0.62 J	0.96 J	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	(1)-100809-DR-315	0.62 J	0.56 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

(1) Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW5-03
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 30 to 35

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	⁽¹⁾ -071403-SP-042	0.55 J	7.4	--	<1	<1	<1	<1
10/09/03	⁽¹⁾ -100903-JB-090	0.38 J	6.2	--	<1	<1	<1	<1
12/18/03	⁽¹⁾ -121803-JB-115	0.70 J	9.8	--	<1	0.41	<1	<1
03/15/04	⁽¹⁾ -031504-BW-123	0.60 J	6.8	--	<1	<1	<1	<1
10/04/04	⁽¹⁾ -100404-DCR-245	0.50 J	5.7	--	<1	0.22	<1	<1
11/30/04	⁽¹⁾ -113004-DCR-286	0.62 J	6.5	--	<1	0.4	<1	<1
04/04/05	⁽¹⁾ -040405-DCR-335	0.70 J	6.9	--	0.24 J	1.2	0.36 J	<1
06/29/05	⁽¹⁾ -062905-DCR-394	0.49 J	4.8	--	1.0 U	0.61 J	0.16 J	1.0 UJ
12/06/05	⁽¹⁾ -120605-DCR-577	0.61 J	5.9	--	1.0 U	0.57 J	0.17 J	1.0 U
09/11/06	⁽¹⁾ -091106-JY-018	0.55 J	3.6	--	1.0 U	0.78 J	0.23 J	1.0 U
05/08/07	⁽¹⁾ -050807-JY-63	0.48 J	3.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/15/07	⁽¹⁾ -101507-DR-108	0.6 J	3.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/21/08	⁽¹⁾ -042108-DR-142	0.61 J	2.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	⁽¹⁾ -100608-DR-191	0.5 J	1.6	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-245	0.6 J	1.7	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	⁽¹⁾ -100809-DR-314	0.49 J	1.2	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: MW6-03
 REVISION: 1/5/2010
 UNITS: ug/L

ELEVATION: top of casing -
 DEPTH: screen - 13 to 18

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/14/03	(1)-071403-SP-041	1.0 U	<1	--	<1	<1	<1	<1
10/02/03	(1)-100203-JB-088	0.41 J	<1	--	<1	<1	<1	<1
12/18/03	(1)-121803-JB-111	0.16 J	1.2	--	<1	<1	<1	<1
03/15/04	(1)-031504-BW-121	1.0 U	<1	--	<1	<1	<1	<1
10/04/04	(1)-100404-DCR-243	1.0 U	0.5	--	<1	<1	<1	<1
11/30/04	(1)-113004-DCR-282	1.0 U	0.58	--	<1	<1	<1	<1
*11/30/04	(1)-113004-DCR-282	1.0 U	0.59	--	<1	<1	<1	<1
04/04/05	(1)-040405-DCR-332	1.0 U	0.57 J	--	<1	<1	<1	<1
06/27/05	(1)-062705-DCR-372	1.0 U	0.42 J	--	1.0 U	1.0 U	1.0 U	1.0 U
06/27/05	(1)-062705-DCR-373	1.0 U	0.45 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/02/05	(1)-120205-DCR-505	1.0 UJ	0.34 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/11/06	(1)-091106-JY-015	1.0 UJ	0.38 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/08/07	(1)-050807-JY-061	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/15/07	(1)-101507-DR-104	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	(1)-100608-DR-189	1.0 UJ	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	(1)-040709-DR-242	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	(1)-100809-DR-311	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

(1) Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW7-03
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 36 to 41

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
07/15/03	⁽¹⁾ -071503-SP-041	1.0 U	0.54	--	<1	<1	<1	<1
09/30/03	⁽¹⁾ -093003-JB-071	1.0 U	0.37	--	<1	<1	<1	<1
12/17/03	⁽¹⁾ -121703-JB-102	1.0 U	0.9	--	<1	<1	<1	<1
03/16/04	⁽¹⁾ -031604-BW-135	1.0 U	<1	--	<1	<1	<1	<1
*03/16/04	⁽¹⁾ -031604-BW-136	1.0 U	<1	--	<1	<1	<1	<1
10/05/04	⁽¹⁾ -100504-DCR-254	1.0 U	0.74	--	<1	<1	<1	<1
12/01/04	⁽¹⁾ -120104-DCR-302	1.0 U	0.78	--	<1	<1	<1	<1
04/05/05	⁽¹⁾ -040505-DCR-339	1.0 UJ	0.75 J	--	0.19 J	0.80 J	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-377	1.0 U	0.75 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/04/05	⁽¹⁾ -120405-DCR-556	1.0 UJ	0.60 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	⁽¹⁾ -091206-JY-027	1.0 UJ	0.79 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-075	1.0 U	0.71 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	⁽¹⁾ -101607-DR-125	1.0 U	0.68 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/23/08	⁽¹⁾ -042308-DR-181	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-205	1.0 U	0.88 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-254	1.0 U	0.92 J	--	1.0 U	1.0 U	1.0 U	1.0 U
10/06/09	⁽¹⁾ -100609-DR-285	1.0 U	0.66 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW8-04
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 30 to 35

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/04/04	⁽¹⁾ -100404-DCR-244	0.33 J	2.9	--	<1	0.22	<1	<1
11/30/04	⁽¹⁾ -113004-DCR-285	0.45 J	3.1	--	<1	0.52	<1	<1
04/04/05	⁽¹⁾ -040405-DCR-334	0.42 J	2.9	--	<1	0.80 J	0.19 J	<1
06/27/05	⁽¹⁾ -062705-DCR-374	0.39 J	1.8	--	1.0 U	0.30 J	1.0 U	1.0 U
12/03/05	⁽¹⁾ -120305-DCR-551	0.35 J	1.6	--	1.0 U	0.26 J	1.0 U	1.0 U
09/11/06	⁽¹⁾ -091106-JY-019	0.42 J	1.6	--	1.0 U	1.0 U	1.0 U	1.0 U
05/08/07	⁽¹⁾ -050807-JY-062	0.27 J	0.89 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/15/07	⁽¹⁾ -101507-DR-106	0.39 J	0.91 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/21/08	⁽¹⁾ -042108-DR-143	0.34 J	0.64 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	⁽¹⁾ -100608-DR-190	1.0 UJ	0.55 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-244	1.0 U	0.55 J	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	⁽¹⁾ -100809-DR-313	1.0 U	0.39 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW9-04
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 43 to 48

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	⁽¹⁾ -100504-DCR-250	0.49 J	2.4	--	0.30	0.88	0.20	<1
12/01/04	⁽¹⁾ -120104-DCR-294	0.69 J	4	--	0.36	1.6	0.48	<1
04/05/05	⁽¹⁾ -040505-DCR-347	0.65 J	3.1	--	<1	0.23 J	<1	<1
06/29/05	⁽¹⁾ -062905-DCR-395	0.54 J	1.8	--	1.0 U	1.0 U	1.0 U	1.0 UJ
12/06/05	⁽¹⁾ -120605-DCR-574	0.60 J	2.8	--	0.33 J	1.4 J	0.41 J	1.0 U
09/12/06	⁽¹⁾ -091206-DR-024	0.52 J	2.8	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-072	0.47 J	0.72 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	⁽¹⁾ -101607-DR-109	0.58 J	0.97 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	⁽¹⁾ -042208-DR-152	0.52 J	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/08	⁽¹⁾ -100608-DR-196	0.44 J	0.73 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-247	0.48 J	0.63 J	--	1.0 U	1.0 U	1.0 U	1.0 U
*4/7/2009	⁽¹⁾ -040709-DR-248	0.46 J	0.62 J	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	⁽¹⁾ -100809-DR-312	0.38 J	0.41 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

*Dupliate

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW10-04
REVISION: 1/5/2010
UNITS: ug/L
ELEVATION: top of casing -
DEPTH: screen - 33 to 38

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	⁽¹⁾ -100504-DCR-249	1.0 U	12	--	0.59	<1	<1	<1
12/01/04	⁽¹⁾ -120104-DCR-289	1.0 U	12	--	0.39	<1	<1	<1
04/05/05	⁽¹⁾ -040505-DCR-338	1.0 UJ	7.9	--	0.58 J	<1	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-376	1.0 U	6.3	--	0.46 J	1.0 U	1.0 U	1.0 U
12/03/05	⁽¹⁾ -120305-DCR-553	1.0 UJ	4.7	--	0.39 J	1.0 UJ	1.0 U	1.0 U
09/12/06	⁽¹⁾ -091206-JY-021	1.0 UJ	5.1	--	0.25 J	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-070	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	⁽¹⁾ -101607-DR-111	1.0 U	1.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	⁽¹⁾ -042208-DR-156	1.0 UJ	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-201	1.0 UJ	1.4	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/08	⁽¹⁾ -040709-DR-250	1.0 U	1.3	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	⁽¹⁾ -100809-DR-318	1.0 U	1.5	--	1.0 U	1.0 U	1.0 U	1.0 U
*10/8/09	⁽¹⁾ -100809-DR-319	1.0 U	1.5	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: MW11D-04
 REVISION: 1/5/2010
 UNITS: ug/L

ELEVATION: top of casing -
 DEPTH: screen - 40 to 45

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	⁽¹⁾ -100504-DCR-248	28	43	--	<1	70	6.2	<1
12/01/04	⁽¹⁾ -120104-DCR-291	34	39	--	<5	150	6.8	<5
*12/01/04	⁽¹⁾ -120104-DCR-293	34	37	--	<5	150	6.5	<5
04/05/05	⁽¹⁾ -040505-DCR-348	15 J	25	--	<1	23	3	<1
06/29/05	⁽¹⁾ -062905-DCR-396	9.8	12	--	1.0 U	4.7	0.70 J	1.0 UJ
12/06/05	⁽¹⁾ -120605-DCR-580	18	32	--	1.0 U	78 J	4.6	1.0 U
09/12/06	⁽¹⁾ -091206-JY-023	7.3 J	7.4	--	1.0 U	2	0.28 J	1.0 U
05/09/07	⁽¹⁾ -050907-JY-068	1.2	2.8	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U
10/16/07	⁽¹⁾ 101607-DR-113	1.2	4.1	1.0 U	1.0 U	0.34 J	1.0 U	1.0 U
04/22/08	⁽¹⁾ -042208-DR-154	1.8 J	2.7	1.0 U	1.0 U	2.4	0.35 J	1.0 U
10/07/08	⁽¹⁾ -100708-DR-203	0.79 J	1.9	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-252	0.54 J	2.4	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	⁽¹⁾ -100809-DR-316	0.48 J	2.1	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

SITE: MW11S-05
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen -

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
09/12/06	⁽¹⁾ -091206-JY-022	1.0 UJ	0.47 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-069	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	⁽¹⁾ -101607-DR-114	1.0 U	0.45 J	1.0 U	0.21 J	1.0 U	1.0 U	1.0 U
04/22/08	⁽¹⁾ -042208-DR-155	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-202	1.0 UJ	0.36 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-251	1.0 U	0.58 J	--	1.0 U	1.0 U	1.0 U	1.0 U
10/08/09	⁽¹⁾ -100809-DR-317	1.0 U	0.49 J	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW13-04
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen - 25 to 30

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	⁽¹⁾ -100504-DCR-264	1.0 U	<1	--	<1	<1	<1	<1
12/02/04	⁽¹⁾ -120204-DCR-315	1.0 U	<1	--	<1	<1	<1	<1
04/06/05	⁽¹⁾ -040605-DCR-356	1.0 U	<1	--	<1	<1	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-386	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
12/05/05	⁽¹⁾ -120505-DCR-564	1.0 UJ	1.0 U	--	1.0 UJ	1.0 U	1.0 U	1.0 U
09/12/06	⁽¹⁾ -091206-JY-037	1.0 UJ	1.0 U	--	1.0 U	1.0 UJ	1.0 U	1.0 U
05/10/07	⁽¹⁾ -051007-JY-084	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/07	⁽¹⁾ -101607-DR-127	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/23/08	⁽¹⁾ -042308-DR-173	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/08/08	⁽¹⁾ -100808-DR-224	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
04/08/09	⁽¹⁾ -040809-DR-268	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U
10/07/09	⁽¹⁾ -100709-DR-295	1.0 U	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW14-04
 REVISION: 1/5/2010
 UNITS: ug/L

ELEVATION: top of casing -
 DEPTH: screen - 45 to 50

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/06/04	⁽¹⁾ -100604-DCR-274	1.0 U	0.34	--	<1	<1	<1	<1
*10/06/04	⁽¹⁾ -100604-DCR-275	1.0 U	0.31	--	0.25	<1	<1	<1
12/02/04	⁽¹⁾ -120204-DCR-309	1.0 U	0.30	--	<1	<1	<1	<1
04/06/05	⁽¹⁾ -040605-DCR-360	1.0 U	0.40 J	--	<1	<1	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-385	1.0 U	0.31 J	--	1.0 U	1.0 U	1.0 U	1.0 U
12/04/05	⁽¹⁾ -120405-DCR-561	1.0 UJ	0.34 J	--	1.0 U	1.0 UJ	1.0 U	1.0 U
09/12/06	⁽¹⁾ -091206-DR-050	1.0 UJ	0.37 J	--	1.0 U	1.0 UJ	1.0 U	1.0 UJ
05/10/07	⁽¹⁾ -051007-JY-088	1.0 UJ	0.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/07	⁽¹⁾ -101707-DR-130	1.0 U	0.36 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	⁽¹⁾ -042208-DR-164	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-218	1.0 U	0.67 J	--	1.0 U	1.0 U	1.0 U	1.0 U
04/08/08	⁽¹⁾ -040809-DR-261	1.0 U	1.6	--	1.0 U	1.0 U	1.0 U	1.0 U
10/07/09	⁽¹⁾ -100709-DR-296	1.0 U	2.8	--	1.0 U	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: MW15-04 **ELEVATION:** top of casing -
REVISION: 1/5/2010 **DEPTH:** screen - 25 to 30
UNITS: ug/L

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
10/05/04	⁽¹⁾ -100504-DCR-258	1.0 U	2.3	--	0.99	<1	<1	<1
12/01/04	⁽¹⁾ -120104-DCR-303	1.0 U	2.2	--	0.71	<1	<1	<1
*12/01/04	⁽¹⁾ -120104-DCR-304	1.0 U	2.3	--	0.77	<1	<1	<1
04/05/05	⁽¹⁾ -040655-DCR-349	1.0 UJ	2.0	--	<1	<1	<1	<1
*4/5/2005	⁽¹⁾ -040655-DCR-350	1.0 UJ	2.0	--	1.3	<1	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-380	1.0 U	2.4	--	1.1	1.0 U	1.0 U	1.0 U
12/04/05	⁽¹⁾ -120405-DCR-558	1.0 UJ	1.5	--	0.61 J	1.0 UJ	1.0 U	1.0 U
09/12/06	⁽¹⁾ -091206-DR-029	1.0 UJ	0.46 J	--	1.0 U	1.0 U	1.0 U	1.0 U
05/09/07	⁽¹⁾ -050907-JY-078	1.0 U	3.2	1.0 U	1.5	0.22 J	1.0 U	1.0 U
10/16/07	⁽¹⁾ -101607-DR-118	1.0 U	3.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/22/08	⁽¹⁾ -042208-DR-158	1.0 UJ	1.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/08	⁽¹⁾ -100708-DR-208	1.0 U	2.4	--	0.41 J	1.0 U	1.0 U	1.0 U
04/06/09	⁽¹⁾ -040609-DR-239	1.0 U	1.5	--	0.25 J	1.0 U	1.0 U	1.0 U
106/09	⁽¹⁾ -100609-DR-282	1.0 U	1.7	--	0.28 J	1.0 U	1.0 U	1.0 U

-- = Not analyzed

DCE = Dichloroethene

⁽¹⁾ Full sample number includes GW-17360

SITE: MW17-06
REVISION: 1/5/2010
UNITS: ug/L

ELEVATION: top of casing -
DEPTH: screen -

Date	Sample	PCE	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
09/12/06	(1)-091106-DR-009	23 J	16	--	4.0 U	140 J	4	4.0 U
05/08/07	(1)-050807-JY-056	17	9.5	2.0 U	2.0 U	61	1.4 J	2.0 U
10/15/07	(1)-101507-DR-098	25	11	3.3 U	3.3 U	84	1.8 J	3.3 U
04/22/08	(1)-042208-DR-157	18	7	1.4 U	1.4 U	48	1.4	1.4 U
10/06/08	(1)-100608-DR-197	20	7.7	--	1.7 U	52	1.2 J	1.7 U
04/06/09	(1)-040609-DR-234	24	6.6	--	1.0 U	31	0.97 J	1.0 U
10/06/09	(1)-100609-DR-280	25	5.5	--	1.0 U	18	0.58 J	1.0 U

-- = Not analyzed

DCE = Dichloroethene

(1) Full sample number includes GW-17360

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: Field-Blk
 REVISION: 1/5/2010
 UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	Vinyl Chloride	1,1,1-TCA
12/21/88	E11605	3	<2	--	--	--
03/17/89	E15528	<1	<1	--	--	--
06/15/89	U00160	E	E	--	--	E
08/22/89	E24444	<1	--	--	--	--
09/20/89	E25607	<1	<1	--	--	--
10/13/89	E26927	<1	<1	--	--	--
11/17/89	E29150	<1	<1	--	--	--
12/21/89	E31004	<1	<1	<1	<1	--
01/12/90	E31897	<1	<1	--	--	--
02/16/90	E33920	<1	<1	--	--	<1
03/16/90	E35833	<1	<1	--	--	<1
04/12/90	E37260	<1	<1	--	--	<1
05/18/90	E39760	<1	<1	--	--	<1
06/18/90	E42009	<1	<1	--	--	<1
07/13/90	E44007	<1	<1	--	--	<1
08/20/90	E46576	1	<1	--	--	<1
09/14/90	E48213	<1	<1	--	--	<1
10/12/90	E50166	<1	<1	--	--	<1
11/15/90	E52801	<1	<1	--	--	<1
12/17/90	E54829	<2	<2	<2	<10	--
03/11/91	E59924	<1	<1	--	--	--
06/13/91	E67560	<1	<1	--	--	<1
09/12/91	E72990	<1	<1	--	--	<1
12/13/91	E07659	<1	--	<1	<1	<1
03/13/92	E15395	<1	<1	--	--	<1
06/12/92	E23270	<1	<1	--	--	<1
09/11/92	E31924	<1	<1	--	--	<1
12/10/92	E40338	<1	--	<1	<1	<1
03/11/93	E47626	1.1	<1	--	--	<1
06/14/93	E56592	<1	<1	--	--	<1
09/15/93	E66054	HT<1	HT<1	--	--	HT<1
12/17/93	E75758	<1	<1	<1	<1	<1
03/16/94	E81252	<1	<1	--	--	<1
06/14/94	E89404	<1	<1	--	--	<1
09/14/94	E97454	<1	<1	--	--	<1
12/16/94	E106393	<1	<1	<1	<1	<1
03/17/95	E112957	<1	<2	--	--	<1
06/20/95	E120798	<1	<2	--	--	<1
09/14/95	E127377	<1	<2	--	--	<1
12/18/95	E134979	<1	<1	<1	<1	--

-- = Not analyzed
 E = Lab Error

TCE = Trichloroethene DCE = Dichloroethene TCA = Trichloroethane
 HT = Analysis performed beyond EPA established maximum allowable holding time.

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: Field-Blk
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	Vinyl Chloride	1,1,1-TCA
03/19/96	E139855	<1	<1	--	--	<1
06/13/96	E147338	<1	<1	--	--	<1
09/13/96	E154137	<1	<1	--	--	<1
12/13/96	E161531	<1	<1	<1	<1	<1
03/13/97	E166209	<1	<1	--	--	<1
06/19/97	E172381	<1	<1	--	--	<1
09/11/97	E177745	<1	<1	--	--	<1
12/16/97	E184903	<1	<1	<1	<1	--
03/12/98	E190816	<1	<1	--	--	--
06/16/98	82953-3402	<1	<2	--	--	--
09/17/98	84367-8369	<1	<1	--	--	--
12/16/98	85755-2524	<1	<1	<1	<1	--
03/10/99	90995-6094	<1	<1	--	--	--
06/15/99	3990294014	<1	<2	--	--	--
09/20/99	3991971010	<1	<1	--	--	--
12/16/99	3993622001	<1	<1	<1	<1	--
06/13/00	3002633011	<1	<1	--	--	--
09/22/00	E261232	<1	<1	--	--	--
12/20/00	E268214	<1	<1	<1	<1	--
03/21/01	E274384	<1	<1	--	--	--
06/14/01	E281019	<1	<1	--	--	--
09/13/01	E287757	<1	<1	--	--	--
12/19/01	E287757	SS<1	SS<1	SS<1	SS<1	--

-- = Not analyzed TCE = Trichloroethene DCE = Dichloroethene TCA = Trichloroethane
SS = Surrogate spike result had a percent recovery outside the upper control limit.
This result must be considered estimated.

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: Trip-Blk
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1,1-TCA
03/16/89	E15529	<1	<1	--	--	--	--	--
06/15/89	U00161	LE	LE	--	--	--	--	LE
08/22/89	E24443	2.9	--	--	--	--	--	--
10/13/89	E26926	<1	<1	--	--	--	--	--
11/17/89	E29149	<1	<1	--	--	--	--	--
01/12/90	E31896	<1	<1	--	--	--	--	--
02/16/90	E33919	<1	<1	--	--	--	--	<1
03/16/90	E35832	<1	<1	--	--	--	--	<1
04/12/90	E37259	<1	<1	--	--	--	--	<1
04/25/90	E39759	<1	<1	--	--	--	--	<1
06/18/90	E42008	<1	<1	--	--	--	--	<1
07/12/90	E44006	2	<1	--	--	--	--	<1
08/20/90	E46575	B	B	--	--	--	--	B
09/14/90	E48212	<1	<1	--	--	--	--	<1
10/02/90	H3935	<5	--	--	--	--	<5	<5
10/12/90	E50165	<1	<1	--	--	--	--	<1
11/15/90	E52800	<1	<1	--	--	--	--	<1
12/18/90	E54831	<2	<2	<2	--	--	<10	--
03/11/91	U00162	LE	LE	--	--	--	--	--
06/13/91	E67570	<1	<1	--	--	--	--	<1
09/12/91	E72989	<1	<1	--	--	--	--	<1
11/20/91	E07660	<1	--	<1	--	--	<1	<1
03/13/92	E15396	<1	<1	--	--	--	--	<1
06/12/92	E23271	<1	<1	--	--	--	--	<1
08/13/92	E29154	<1	<1	--	--	--	--	--
09/11/92	E31906	<1	<1	--	--	--	--	<1
10/16/92	E35369	<1	--	--	--	--	--	--
11/12/92	E37806	<1	--	--	--	--	--	--
12/10/92	E40339	<1	--	<1	--	--	<1	<1
02/12/93	E45485	<1	--	--	--	--	--	--
03/11/93	E47616	<1	<1	--	--	--	--	<1
04/15/93	E50684	<1	--	--	--	--	--	--
05/13/93	E53157	<1	--	--	--	--	--	--
06/14/93	E56593	<1	<1	--	--	--	--	<1
07/16/93	E60031	<1	--	--	--	--	--	--
08/11/93	E62712	<1	--	--	--	--	--	--
09/15/93	E66053	<1	<1	--	--	--	--	<1
10/19/93	E69403	<1	--	--	--	--	--	--

-- = Not Analyzed
LE = Lab Error

TCE = Trichloroethene
B = Vials Broken

DCE = Dichloroethene

TCA = Trichloroethane

**General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data**

SITE: Trip-Blk
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1,1-TCA
11/17/93	E72555	<1	--	--	--	--	--	--
12/17/93	E75759	<1	<1	<1	--	--	<1	<1
01/13/94	E77458	<1	--	--	--	--	--	--
03/16/94	E81253	<1	<1	--	--	--	--	<1
04/13/94	E83747	<1	--	--	--	--	--	--
05/06/94	E86250	<1	--	--	--	--	--	--
06/14/94	E89403	<1	<1	--	--	--	--	<1
07/13/94	E91966	<1	--	--	--	--	--	--
08/12/94	E94709	<1	--	--	--	--	--	--
09/14/94	E97455	<1	<1	--	--	--	--	<1
10/18/94	E100418	<1	--	--	--	--	--	--
11/11/94	E103081	<1	--	--	--	--	--	--
12/16/94	E106392	<1	<1	<1	--	--	<1	<1
01/13/95	E108555	<1	--	--	--	--	--	--
01/20/95	E109181	<1	--	--	--	--	--	--
02/14/95	E110634	<1	--	--	--	--	--	--
03/17/95	E112963	<1	<2	--	--	--	--	<1
04/14/95	E114840	<1	--	--	--	--	--	--
05/05/95	E116689	<1	--	<1	--	--	<1	<1
05/15/95	E117757	<1	--	--	--	--	--	--
06/20/95	E120785	<1	<2	--	--	--	--	<1
07/13/95	E122760	<1	--	--	--	--	--	--
08/14/95	E124915	<1	--	--	--	--	--	--
09/13/95	E127376	<1	<2	--	--	--	--	<1
12/18/95	E134965	<1	<1	<1	--	--	<1	<1
01/02/96	E136051	<1	--	--	--	--	--	--
02/15/96	E137784	<1	--	--	--	--	--	--
03/04/96	E140367	<1	--	--	--	--	--	--
04/04/96	E141882	<1	--	--	--	--	--	--
04/25/96	E143102	<1	--	--	--	--	--	--
05/16/96	E144471	<1	--	--	--	--	--	--
06/12/96	E146830	<1	--	--	--	--	--	--
06/19/96	E149320	<1	--	<1	--	--	--	--
07/31/96	E150439	<1	--	--	--	--	--	--
08/01/96	E151798	<1	--	--	--	--	--	--
09/05/96	E154110	<1	--	--	--	--	--	--
10/15/96	E156831	<1	--	--	--	--	--	--
11/18/96	E159731	<1	--	--	--	--	--	--
12/11/96	E161506	<1	--	--	--	--	--	--
12/11/96	E162083	<1	<1	<1	--	--	<1	<1

-- = Not Analyzed
LE = Lab Error

TCE = Trichloroethene
B = Vials Broken

DCE = Dichloroethene

TCA = Trichloroethane

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: Trip-Blk
REVISION: 1/5/2010
UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1,1-TCA
01/20/97	E163653	<1	--	--	--	--	--	--
02/11/97	E164986	<1	--	--	--	--	--	--
03/12/97	E166208	<1	<1	--	--	--	--	<1
03/31/97	E168313	<1	--	--	--	--	--	--
05/02/97	E170415	<1	--	--	--	--	--	--
06/04/97	E174139	<1	--	--	--	--	--	--
06/09/97	E172366	<1	--	--	--	--	--	--
07/20/97	E175817	<1	--	--	--	--	--	--
09/04/97	E177690	<1	--	--	--	--	--	--
10/13/97	E180330	<1	--	--	--	--	--	--
10/30/97	E182372	<1	--	--	--	--	--	--
12/16/97	E184895	<1	<1	<1	--	--	<1	--
12/26/97	E186120	<1	--	--	--	--	--	--
01/29/98	E188477	<1	--	--	--	--	--	--
03/10/98	E190687	<1	--	--	--	--	--	--
04/01/98	81905-9816	<1	<2	<1	--	--	<1	<1
04/29/98	82314-1285	<1	<2	--	--	--	<1	--
05/21/98	82953-3404	<1	<2	--	--	--	--	--
07/16/98	83403-4900	<1	--	--	--	--	--	--
07/24/98	83716-6295	<1	--	<1	--	--	<1	<1
08/19/98	83939-7016	<1	--	--	--	--	--	--
09/03/98	84367-8366	<1	<1	--	--	--	--	--
10/09/98	85278-1077	<1	--	--	--	--	--	--
11/20/98	90043-3143	<1	--	--	--	--	--	--
11/20/98	85858-2931	<1	--	<1	--	--	<1	<1
12/16/98	85755-2526	<1	<1	<1	--	--	<1	--
12/23/98	90148-3372	<1	--	--	--	--	--	--
02/15/99	91113-6518	<1	--	--	--	--	--	--
02/16/99	90635-4884	<1	--	--	--	--	--	--
03/03/99	90995-6099	<1	<1	--	--	--	--	--
03/24/99	91468-7712	<1	--	--	--	--	--	--
04/29/99	92011-9427	<1	--	--	--	--	--	--
05/19/99	3990294025	<1	<2	--	--	--	--	--
06/25/99	3990884001	<1	--	--	--	--	--	--
07/28/99	3991393001	<1	--	--	--	--	--	--
09/18/99	3991971009	<1	<1	--	--	--	--	--
10/18/99	3993099001	<1	--	--	--	--	--	--
10/19/99	3992560004	<1	--	--	--	--	--	--
12/16/99	3993622022	<1	<1	<1	--	--	<1	--
01/11/00	3000138001	<1	--	--	--	--	--	--
02/15/00	3000620001	<1	--	--	--	--	--	--
03/16/00	3001152020	<1	<1	--	--	--	--	--
06/13/00	3002633023	<1	<1	--	--	--	--	--
09/22/00	E261230	<1	<1	--	--	--	--	--
10/23/00	E263866	<1	--	--	--	--	--	--

-- = Not Analyzed
 LE = Lab Error

TCE = Trichloroethene
 B = Vials Broken

DCE = Dichloroethene

TCA = Trichloroethane

General Motors
Grand Rapids Metal Fabrication Plant
Monitoring Well Data Summary/Analytical Data

SITE: Trip-Blk
 REVISION: 1/5/2010
 UNITS: ug/L

Date	Sample	TCE	1,2-DCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	1,1,1-TCA
11/13/00	E265857	<1	--	--	--	--	--	--
12/20/00	E268224	<1	<1	<1	--	--	<1	--
01/12/01	E269743	<1	--	--	--	--	--	--
01/31/01	E272135	<1	--	--	--	--	--	--
03/07/01	E274393	<1	<1	--	--	--	--	--
06/01/01	E281029	<1	<1	--	--	--	--	--
09/07/01	E287750	<1	<1	--	--	--	--	--
11/26/01	E295703	SS<1	SS<1	SS<1	--	--	SS<1	SS<1
03/28/02	Trip Blank	<1	<1	--	--	--	--	--
06/27/02	Trip Blank	<1	<1	--	--	--	--	--
09/27/02	Trip Blank	<1	<1	--	--	--	--	--
12/09/02	Trip Blank	<1	<1	<1	--	--	<1	--
03/21/03	Trip Blank	<1	--	--	<1	<1	--	--
07/14/03	Trip Blank	<1	--	<1	<1	<1	<1	<1
07/15/03	Trip Blank	<1	--	<1	<1	<1	<1	<1
10/15/03	Trip Blank	<1	--	<1	<1	<1	<1	<1
12/18/03	Trip Blank	<1	--	<1	<1	<1	<1	<1
03/16/04	Trip Blank	<2	--	<1	<1	<1	<1	<1
10/05/04	Trip Blank	<1	--	0.83	<1	<1	<1	<1
12/03/04	Trip Blank	<1	--	<1	<1	<1	<1	<1
04/05/05	Trip Blank	<1	--	<1	<1	<1	<1	<1
04/06/05	Trip Blank	<1	--	<1	<1	<1	<1	<1
04/07/05	Trip Blank	<1	--	<1	<1	<1	<1	<1
06/28/05	⁽¹⁾ -062805-DCR-390	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
06/29/05	⁽¹⁾ -062905-DCR-408	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
12/05/05	⁽¹⁾ -120505-DCR-570	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
12/06/05	⁽¹⁾ -120605-DCR-584	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
09/11/06	⁽¹⁾ -091106-DR-020	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
09/13/06	⁽¹⁾ -091306-DR-051	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
05/08/07	⁽¹⁾ -050807-JY-064	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
05/10/07	⁽¹⁾ -051007-JY-094	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/16/07	⁽¹⁾ -101607-DR-129	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/17/07	⁽¹⁾ -101707-DR-137	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/21/08	⁽¹⁾ -042108-DR-151	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/23/08	⁽¹⁾ -042308-DR-183	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/08/08	⁽¹⁾ -100808-DR-220	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/08/08	⁽¹⁾ -100808-DR-229	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/07/09	⁽¹⁾ -040709-DR-260	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
04/08/09	⁽¹⁾ -040809-DR-275	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/06/09	⁽¹⁾ -100609	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
10/07/09	⁽¹⁾ -100709	1.0 U	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

SS = Surrogate spike result had a percent recovery outside the upper control limit.

This result must be considered estimated.

-- = Not Analyzed

TCE = Trichloroethene

DCE = Dichloroethene

TCA = Trichloroethane

LE = Lab Error

B = Vials Broken

⁽¹⁾ Full sample number includes TB-17360

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
7/13/1994	*	33	28	29	25	1/13/1995	E108556	1/20/1995	E109178	2/14/1995	E110635
8/12/1994	E94707	E97434	E100374	E103082	E106412	12/16/1994	E108557	1/20/1995	E109179	2/14/1995	E110636
7/13/1994	E91964	Intermediate	Intermediate	Intermediate	Intermediate	12/16/1994	Intermediate	1/20/1995	Intermediate	2/14/1995	Intermediate
8/12/1994	E94706	9/14/1994	10/18/1994	11/11/1994	12/16/1994	1/13/1995	1/20/1995	1/20/1995	1/20/1995	2/14/1995	2/14/1995
7/13/1994	<1	<1	CR3.4	5.4	10	14	<1	<1	<1	3.2	<1
8/12/1994	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7/13/1994	E91963	9/14/1994	10/18/1994	11/11/1994	12/16/1994	1/13/1995	1/20/1995	1/20/1995	1/20/1995	2/14/1995	2/14/1995
8/12/1994	E94708	E97436	E100376	E103084	E106414	E108558	E109180	E109180	E109180	E110637	E110637
7/13/1994	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
8/12/1994	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
7/13/1994	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

* = Sample port not yet installed.
CR = Positive results confirmed by replicate measurement.
-- = Not analyzed.

General Motors

Grand Rapids Metal Fabrication Plant

TCE Treatment System

Influent, Intermediate, and Effluent

SITE: NPDES Discharge

REVISION: 1/5/2010

Sample Date:	3/17/1995	4/13/1995	5/15/1995	6/20/1995	7/13/1995	8/11/1995	9/14/1995	10/17/1995	11/17/1995
Sample Id:	E112938	E114837	E117758	E120801	E122761	E124916	E127396	E129772	E132427
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, ug/L	23	20	20	21	17	15	16	16	13
1,1-Dichloroethane, ug/L	<1	--	--	--	--	--	--	--	<1

Sample Date:	3/17/1995	4/13/1995	5/15/1995	6/20/1995	7/13/1995	8/11/1995	9/14/1995	10/17/1995	11/17/1995
Sample Id:	E112939	E114839	E117760	E120802	E122762	E124917	E127397	E129773	E132428
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Trichloroethene, ug/L	6.5	8	8.9	2.7	4	7.1	9.1	8.7	4
1,1-Dichloroethane, ug/L	<1	--	--	--	--	--	--	--	<1

Sample Date:	3/17/1995	4/13/1995	5/15/1995	6/20/1995	7/13/1995	8/11/1995	9/14/1995	10/17/1995	11/17/1995
Sample Id:	E112940	E114838	E117759	E120803	E122763	E124918	E127398	E129774	E132429
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, ug/L	<1	<1	1.8	<1	<1	<1	<1	2	<1
1,1-Dichloroethane, ug/L	<1	--	--	--	--	--	--	--	<1

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	12/19/1995	1/16/1996	2/19/1996	3/19/1996	4/12/1996	4/26/1996	5/16/1996	6/13/1996	7/16/1996
Sample Id:	E134898	E136052	E137785	E139823	E141883	E143103	E144472	E146831	E149321
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, ug/L	13	11	11	12	9.9	9.5	8.8	9.6	8.3
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	12/19/1995	1/16/1996	2/19/1996	3/19/1996	4/12/1996	4/26/1996	5/16/1996	6/13/1996	7/16/1996
Sample Id:	E134899	E136053	E137786	E139824	E141884	E143104	E144473	E146832	E149322
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Trichloroethene, ug/L	6	6.8	8.4	9.3	<1**	<1	2.5	2.9	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	12/19/1995	1/16/1996	2/19/1996	3/19/1996	4/12/1996	4/26/1996	5/16/1996	6/13/1996	7/16/1996
Sample Id:	E134900	E136054	E137787	E139825	E141885	E143105	E144474	E146833	E149323
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, ug/L	<1	<1	<1	1.2	10**	<1	<1	<1	2.9
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

-- = Not analyzed.

** = Suspected that samples were labeled incorrectly in the field. Resampled 4/26/96.

* = Sample port not yet installed.

CR = Positive results confirmed by replicate measurement.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Sample Id:	8/1/1996	8/16/1996	9/13/1996	10/17/1996	11/19/1996	12/12/1996	1/20/1997	2/14/1997	3/13/1997
		E150442	E151801	E154113	E156834	E159734	E161507	E163656	E164989	E166229
		Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L	15	14	11	12	11	11	9.9	8.9	9.1	8.1
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--	--

Sample Date:	Sample Id:	8/1/1996	8/16/1996	9/13/1996	10/17/1996	11/19/1996	12/12/1996	1/20/1997	2/14/1997	3/13/1997
		E150441	E151800	E154112	E156833	E159733	E161508	E163655	E164988	E166228
		Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L	7.7	9.1	6.9	9.6	4.2	5	4.5	6.2	6.1
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	Sample Id:	8/1/1996	8/16/1996	9/13/1996	10/17/1996	11/19/1996	12/12/1996	1/20/1997	2/14/1997	3/13/1997
		E150440	E151799	E154111	E156832	E159732	E161509	E163654	E164987	E166227
		Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L	<1	<1	<1	2.9	<1	<1	<1	<1	<1	1.4
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--	--

-- = Not analyzed.
* = Sample port not yet installed.
CR = Positive results confirmed by replicate measurement.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
4/18/1997	E168316	9.7	9	8.8	10	10	10	10	10	9	9	9.3	8
5/15/1997	E170418												
6/19/1997	E172369												
7/17/1997	E174142												
8/14/1997	E175814												
9/11/1997	E177693												
10/17/1997	E180333												
11/14/1997	E182375												
12/16/1997	E184894												

Trichloroethene, ug/L
I,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
4/18/1997	E168315	2.9	4.8	6	7.9	9.4	10	10	10	3.7	4.9	5.4	8
5/15/1997	E170417												
6/19/1997	E172368												
7/17/1997	E174141												
8/14/1997	E175815												
9/11/1997	E177692												
10/17/1997	E180332												
11/14/1997	E182374												
12/16/1997	E184893												

Trichloroethene, ug/L
I,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
4/18/1997	E168314	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
5/15/1997	E170416												
6/19/1997	E172367												
7/17/1997	E174140												
8/14/1997	E175816												
9/11/1997	E177691												
10/17/1997	E180331												
11/14/1997	E182373												
12/16/1997	E184892												

Trichloroethene, ug/L
I,1-Dichloroethane, ug/L

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
1/14/1998	E186123	6	5.6	5.9	5	6	6	6	6	6	5
2/16/1998	E188480	--	--	--	--	--	--	--	--	--	--
3/12/1998	E190690	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
4/22/1998	81962-0007	5/20/1998	82447-1683	6/16/1998	82953-3394	7/16/1998	83403-4904	8/19/1998	83939-7019	9/17/1998	84367-8357

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Influent	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
1/14/1998	E186122	4.6	5.2	5.3	5	3	3	3	3	3	4
2/16/1998	E188479	--	--	--	--	--	--	--	--	--	--
3/12/1998	E190689	Intermed	Intermed	Intermed	Intermed	Intermed	Intermed	Intermed	Intermed	Intermed	Intermed
4/22/1998	81962-0008	5/20/1998	82447-1682	6/16/1998	82953-3393	7/16/1998	83403-4903	8/19/1998	83939-7018	9/17/1998	84367-8356

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
1/14/1998	E186121	<1	<1	<1	1	<1	<1	<1	<1	<1	<1
2/16/1998	E188478	--	--	--	--	--	--	--	--	--	--
3/12/1998	E190688	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
4/22/1998	81962-0009	5/20/1998	82447-1681	6/16/1998	82953-3392	7/16/1998	83403-4901	8/19/1998	83939-7017	9/17/1998	84367-8355

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
10/14/1998	84778-9599	11/18/1998	12/16/1998	1/12/1999	2/16/1999	3/18/1999	4/12/1999	5/18/1999	84778-9599	92011-9430
		85278-1080	85755-2517	90148-3375	90635-4887	91113-6519	91468-7715	92011-9430		

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
10/14/1998	84778-9598	11/18/1998	12/16/1998	1/12/1999	2/16/1999	3/18/1999	4/12/1999	5/18/1999	84778-9598	92011-9429
		85278-1079	85755-2518	90148-3374	90635-4886	91113-6520	91468-7714	92011-9429		

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
10/14/1998	84778-9597	11/18/1998	12/16/1998	1/12/1999	2/16/1999	3/19/1999	4/12/1999	5/18/1999	84778-9597	92011-9428
		85278-1078	85755-2519	90148-3373	90635-4485	91113-6521	91468-7713	92011-9428		

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	6/15/1999	7/21/1999	8/17/1999	9/20/1999	10/19/1999	11/17/1999	12/16/1999	1/11/2000	2/15/2000
Sample Id:	3990294005	3990884004	3991393004	3991972003	3992560001	3993099004	3993622007	3000138004	3000620004
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, ug/L	6	5.57	5.3	5.7	5.6	4.6	4.5	4.4	4.4
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	6/15/1999	7/21/1999	8/17/1999	9/20/1999	10/19/1999	11/17/1999	12/16/1999	1/11/2000	2/15/2000
Sample Id:	3990294004	3990884003	3991393003	3991972002	3992560002	3993099003	3993622006	3000138003	3000620003
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
Trichloroethene, ug/L	<1	<1	<1	1.4	2.3	2.4	2.7	2.9	3.3
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

Sample Date:	6/15/1999	7/21/1999	8/17/1999	9/20/1999	10/19/1999	11/17/1999	12/16/1999	1/11/2000	2/15/2000
Sample Id:	3990294003	3990884002	3991393002	3991972001	3992560003	3993099002	3993622005	3000138002	3000620002
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, ug/L	<1	<1	<1	<1	<1	<1	<1	<1	1.2
1,1-Dichloroethane, ug/L	--	--	--	--	--	--	--	--	--

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
3/16/2000	4.2	3.2	3.2	3.2	3.3	3.8	3.8	3.8	4.7
Sample Id:	3001152008	3001725004	3002122004	3002633005	3003504002	E258488	E261224	E263869	

Trichloroethene, ug/L	Influent	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
1,1-Dichloroethane, ug/L	4.2	3.2	3.2	3.3	3.8	3.8	3.8	3.8	4.7
Sample Date:	3/16/2000	4/19/2000	5/15/2000	6/13/2000	7/25/2000	8/23/2000	8/23/2000	8/23/2000	9/22/2000
Sample Id:	3001152007	3001725003	3002122003	3002633004	3003504003	E258487	E261223	E263868	

Trichloroethene, ug/L	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
1,1-Dichloroethane, ug/L	1.8	2	2	2.4	2.9	2.9	2.9	2.9	4.4
Sample Date:	3/16/2000	4/19/2000	5/15/2000	6/13/2000	7/25/2000	8/23/2000	8/23/2000	8/23/2000	9/22/2000
Sample Id:	3001152006	3001725002	3002122002	3002633003	3003504004	E258486	E261222	E263867	

Trichloroethene, ug/L	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
1,1-Dichloroethane, ug/L	<1	<1	<1	<1	<1	<1	<1	<1	1.3
	--	--	--	--	--	--	--	--	--

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
11/14/2000	E265860	3	6.1	4.6	4.2	4.5	3.7	3.5	4.1
12/20/2000	E268209	--	--	--	--	--	--	--	--
1/18/2001	E269746	4.6	4.2	4.5	3.7	3.5	4.1	3.5	4.1
2/21/2001	E272138	4.6	4.2	4.5	3.7	3.5	4.1	3.5	4.1
3/21/2001	E274377	4.5	3.7	3.5	4.1	3.5	4.1	3.5	4.1
4/17/2001	E276265	3.7	3.5	4.1	3.5	4.1	3.5	4.1	3.5
5/24/2001	E279439	3.5	4.1	3.5	4.1	3.5	4.1	3.5	4.1
6/13/2001	E281032	4.1	3.5	4.1	3.5	4.1	3.5	4.1	3.5

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
11/14/2000	E265859	<1	<1	<1	<1	<1	<1	<1	<1
12/20/2000	E268208	--	--	--	--	--	--	--	--
1/18/2001	E269745	<1	<1	<1	<1	<1	<1	<1	<1
2/21/2001	E272137	<1	<1	<1	<1	<1	<1	<1	<1
3/21/2001	E274376	<1	<1	<1	<1	<1	<1	<1	<1
4/17/2001	E276264	<1	<1	<1	<1	<1	<1	<1	<1
5/24/2001	E279438	<1	<1	<1	<1	<1	<1	<1	<1
6/13/2001	E281031	<1	<1	<1	<1	<1	<1	<1	<1

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
11/14/2000	E265858	<1	<1	<1	<1	<1	<1	<1	<1
12/20/2000	E268207	--	--	--	--	--	--	--	--
1/18/2001	E269744	<1	<1	<1	<1	<1	<1	<1	<1
2/21/2001	E272136	<1	<1	<1	<1	<1	<1	<1	<1
3/21/2001	E274375	<1	<1	<1	<1	<1	<1	<1	<1
4/17/2001	E276263	<1	<1	<1	<1	<1	<1	<1	<1
5/24/2001	E279437	<1	<1	<1	<1	<1	<1	<1	<1
6/13/2001	E281030	<1	<1	<1	<1	<1	<1	<1	<1

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

-- = Not analyzed.
MS=Matrix spike duplicate RPD for this sample, fell outside laboratory control limits.
The corresponding result must be considered estimated.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent	Influent	Influent	Influent
7/16/2001	E283305	5.2	3	4.8	4.9	4.3	4.9	4.9
8/22/2001	E285981							
9/13/2001	E287740							
10/9/2001	E289883							
11/13/2001	E292886							
12/19/2001	E295702							
1/9/2002	INF-3							

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
7/16/2001	E283304	3.1	<1	1	1.6	<1	<1	<1
8/22/2001	E285980							
9/13/2001	E287739							
10/9/2001	E289882							
11/13/2001	E292885							
12/19/2001	E295701							
1/9/2002	MID-2							

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
7/16/2001	E283303	<1	<1	<1	MS <1	<1	<1	<1
8/22/2001	E285979							
9/13/2001	E287738							
10/9/2001	E289881							
11/13/2001	E292884							
12/19/2001	E295700							
1/9/2002	EFF-1							

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	2/6/2002	3/6/2002	4/10/2002	5/1/2002	6/5/2002
Sample Id:	IN-17360-JB-2602-03	IN-17360-JB-030602-003	IN-17360-JB-041002-003	IN-17360-050102-JB-03	IN-17360-060502-JB-03
	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

	3.0	4.3	1.9 ⁽¹⁾	5.3	6.3
	--	--	--	--	--

Sample Date:	2/6/2002	3/6/2002	4/10/2002	5/1/2002	6/5/2002
Sample Id:	IT-17360-JB-2602-02	IT-17360-JB-030602-002	IT-17360-JB-041002-002	IT-17360-050102-JB-02	MD-17360-060502-JB-02
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

	<1	1.0	<1	<1	<1
	--	--	--	--	--

Sample Date:	2/6/2002	3/6/2002	4/10/2002	5/1/2002	6/5/2002
Sample Id:	EF-17360-JB-2602-01	EF-17360-JB-030602-001	EF-17360-JB-041002-001	EF-17360-050102-JB-01	EF-17360-060502-JB-01
	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

	<1	<1	<1	<1	<1
	--	--	--	--	--

-- = Not analyzed.

⁽¹⁾Based on a detection of 4.9 ug/L in the trip blank, the results for effluent detection of 1.9 ug/L would qualify as non-detect at 4.9 ug/L

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	7/17/2002	7/26/2002	8/14/2002	9/4/2002	10/9/2002
Sample Id:	IN-17360-071702-JB-003	IN-17360-072602-JB-003	IN-17360-081402-JB-003	IN-17360-090402-JB-003	IF-17360-100902-JB-068
	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L	5.7	6.5	5.0	5.6	4.7
1,1-Dichloroethane, ug/L	--	--	--	--	--

Sample Date:	7/17/2002	7/26/2002	8/14/2002	9/4/2002	10/9/2002
Sample Id:	IT-17360-071702-JB-002	IT-17360-072602-JB-002	MD-17360-081402-JB-002	MD-17360-090402-JB-002	MD-17360-100902-JB-067
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L	1.7	<1	<1	<1	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--

Sample Date:	7/17/2002	7/26/2002	8/14/2002	9/4/2002	10/9/2002
Sample Id:	EF-17360-071702-JB-001	EF-17360-072602-JB-001	EF-17360-081402-JB-001	EF-17360-090402-JB-001	EF-17360-100902-JB-066
	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L	<1	<1	<1	<1	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--

-- = Not analyzed.

General Motors

Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	11/7/2002	12/13/2002	1/15/2003	2/17/2003	3/5/2003
Sample Id:	IN-17360-110702-JB-072	IN-17360-121302-JB-003	IN-17360-011503-JB-083	IN-17360-021703-JB-003	IN-17360-030503-JB-003
	Influent	Influent	Influent	Influent	Influent

Trichloroethene, ug/L	4.6	4.7	4.9	3.9	4.2
1,1-Dichloroethane, ug/L	--	--	--	--	--

Sample Date:	11/7/2002	12/13/2002	1/15/2003	2/17/2003	3/5/2003
Sample Id:	MD-17360-110702-JB-071	MD-17360-121302-JB-002	MD-17360-011503-JB-082	MD-17360-021703-JB-002	MD-17360-030503-JB-002
	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L	<1	<2	2	4	1.3
1,1-Dichloroethane, ug/L	--	--	--	--	--

Sample Date:	11/7/2002	12/13/2002	1/15/2003	2/17/2003	3/5/2003
Sample Id:	EF-17360-110702-JB-070	EF-17360-121302-JB-001	EF-17360-011503-JB-081	EF-17360-021703-JB-001	EF-17360-030503-JB-001
	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L	<1	<2	<1	<2	<1
1,1-Dichloroethane, ug/L	--	--	--	--	--

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	Sample Id:	Influent	Influent	Influent	Influent
4/17/2003	IN-17360-041703-JB-064	2.6	3.6	3.3	2.4
5/14/2003	IN-17360-051403-JB-003	--	--	--	--
9/10/2003	IN-17360-091003-JB-003				
12/17/2003	IN-17360-121703-JB-003				
3/3/2004	IN-17360-030304-JB-003				

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Intermediate	Intermediate	Intermediate	Intermediate
4/17/2003	MD-17360-041703-JB-063	<1	<1	<1	<1
5/14/2003	MD-17360-051403-JB-002	--	--	--	--
9/10/2003	MD-17360-091003-JB-002				
12/17/2003	MD-17360-121703-JB-002				
3/3/2004	MD-17360-121703-JB-002				

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

Sample Date:	Sample Id:	Effluent	Effluent	Effluent	Effluent
4/17/2003	EF-17360-041703-JB-062	<1	<1	<1	<1
5/14/2003	EF-17360-051403-JB-001	--	--	--	--
9/10/2003	EF-17360-091003-JB-001				
12/17/2003	EF-17360-121703-JB-001				
3/3/2004	EF-17360-121703-JB-001				

Trichloroethene, ug/L
1,1-Dichloroethane, ug/L

-- = Not analyzed.

**General Motors
Grand Rapids Metal Fabrication Plant
TCE Treatment System
Influent, Intermediate, and Effluent**

SITE: NPDES Discharge
REVISION: 1/5/2010

Sample Date:	9/8/2004	12/8/2004	1/5/2005	2/15/2005
Sample Id:	IN-17360-090804-JB-003	IN-17360-120804-JB-003	INF-17360-010505-JB-003	INF-17360-021505-JB-003
	Influent	Influent	Influent	Influent

Trichloroethene, ug/L	1.8	2.2	2.2	2.5
1,1-Dichloroethane, ug/L	--	--	--	--

Sample Date:	9/8/2004	12/8/2004	1/5/2005	2/15/2005
Sample Id:	MD-17360-090804-JB-002	MD-17360-120804-JB-002	MD-17360-010505-JB-002	MD-17360-021505-JB-002
	Intermediate	Intermediate	Intermediate	Intermediate

Trichloroethene, ug/L	1.0	<1	<1	<1
1,1-Dichloroethane, ug/L	--	--	--	--

Sample Date:	9/8/2004	12/8/2004	1/5/2005	2/15/2005
Sample Id:	EF-17360-090804-JB-001	EF-17360-0120804-JB-001	EF-17360-010505-JB-001	EF-17360-021505-JB-001
	Effluent	Effluent	Effluent	Effluent

Trichloroethene, ug/L	<1	<1	<1	<1
1,1-Dichloroethane, ug/L	--	--	--	--

**General Motors
Grand Rapids Metal Fabrication Plant
Soil Vapor Recovery System Summary/Analytical Data**

SITE: 87-3
REVISION: 1/5/2010

Sample Date:	2/21/1989	3/30/1989	5/5/1989	6/9/1989	7/10/1989	8/11/1989	9/14/1989	10/12/1989	11/8/1989	12/15/1989	1/5/1990	2/9/1990	3/7/1990
Sample Id:	A01371	A02417	A03698	A04804	A05852	A07215	A08211	A09893	A01432	A02717	A03243	A04267	A04990
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, mg/m3	138	114	61.3	51.9	71.9	18.1	26	11	16	16.7	18	18	22
Barometric Pressure, mm/Hg	760	--	760	754	768	743	743	743	--	--	766	756	759
Temperature, Deg C.	43	--	43	43	43	24	24	24	--	--	--	38	38

Sample Id:	A01372	A02418	A03700	A04806	A05854	A07217	A08213	A09895	A01434	A02719	A03245	A04269	A04992
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, mg/m3	<2.4	<5.87	<8.6	<8.6	<8.8	<5.3	<5	<5.3	<5	<1	10	<1.2	<1
Barometric Pressure, mm/Hg	760	--	760	754	768	743	743	743	--	--	766	756	759
Temperature, Deg C.	24	--	43	43	43	24	24	24	--	--	--	38	38

-- = Not Analyzed

Grand Rapids Metal Fabrication Plant
Soil Vapor Recovery System Summary/Analytical Data

SITE: 87-3
REVISION: 1/5/2010

Sample Date:	4/4/1990	5/3/1990	6/4/1990	7/5/1990	8/8/1990	9/11/1990	10/2/1990	11/9/1990	12/3/1990	1/14/1991	3/5/1991	6/6/1991	9/3/1991
Sample Id:	A06111	A07192	A08769	A09819	A01186	A02890	H3925	H5796	H7001	A0522	A2685	A6486	A0911
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Trichloroethene, mg/m3	6	7	9	11	2	1	1	1	2	3	1	6	6
Barometric Pressure, mm/Hg	--	--	763	761	766	--	765	760	750	758	754	--	763.19
Temperature, Deg C.	--	--	28	35	30	25	40	35	30	35	40	--	33

Sample Id:	A06113	A07194	A08771	A09821	A01188	A02892	H3927	H5798	H7003	A0524	A2687	A6488	A0913
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent
Trichloroethene, mg/m3	<1	<1	<1	2	<1	<.7	<.7	<1	<1	<1	<1	<1	<1
Barometric Pressure, mm/Hg	--	--	763	761	766	--	765	760	750	758	754	--	763.19
Temperature, Deg C.	--	--	28	35	30	25	40	35	30	35	40	--	33

-- = Not Analyzed
* = Sample broken, resampling not done due to system being down.

**General Motors
Grand Rapids Metal Fabrication Plant
Soil Vapor Recovery System Summary/Analytical Data**

SITE: 87-3
REVISION: 1/5/2010

Sample Date:	12/3/1991	1/27/1992	3/10/1992	6/30/1992	12/11/1992	2/12/1993	3/11/1993	6/14/1993	9/15/1993	12/17/1993	3/16/1994	6/14/1994	9/14/1994
Sample Id:	--	A01551	A04442	A00266	E40346	E45474	E47634	E56573	E66018	E75737	E81231	E89637	E97431
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, mg/m3	*	7	3	<1	44.7	7.9	7.74	4.8	4.8	3.2	5.3	6.3	5.5
Barometric Pressure, mm/Hg	*	744.22	730.50	--	--	--	--	--	--	--	--	--	--
Temperature, Deg C.	*	--	--	--	--	--	--	--	--	--	--	--	--

Sample Id:	--	A05367	A04444	A00268	E40344	E47636	E47636	E56571	E66017	E75739	E81233	E89984	E97433
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, mg/m3	*	<1	4	6	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Barometric Pressure, mm/Hg	*	744.22	730.50	--	--	--	--	--	--	--	--	--	--
Temperature, Deg C.	*	--	--	--	--	--	--	--	--	--	--	--	--

-- = Not Analyzed
* Airzorb carbon units replaced with GM-assembled carbon units.

SITE: 87-3
 REVISION: 1/5/2010

Sample Date:	12/16/1994	3/17/1995	6/20/1995	9/14/1995	12/19/1995	3/19/1996	6/13/1996	9/13/1996	12/13/1996	3/13/1997	6/19/1997	9/19/1997	12/17/1997
Sample Id:	E106389	E112941	E120782	E127399	E134901	E139799	E146827	E154105	E161514	E166232	E178326	E178326	E184888
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, mg/m3
 Barometric Pressure, mm/Hg
 Temperature, Deg C.

Sample Id:	E106391	E112943	E120784	E127401	E134903	E139801	E146829	E154107	E161516	E166234	E172372	E178328	E184890
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, mg/m3
 Barometric Pressure, mm/Hg
 Temperature, Deg C.

-- = Not Analyzed

-- = Not Analyzed

= Sample label was likely switched in the field with the intermediate sample label.

**General Motors
Grand Rapids Metal Fabrication Plant
Soil Vapor Recovery System Summary/Analytical Data**

SITE: 87-3
REVISION: 1/5/2010

Sample Date:	3/12/1998	6/17/1998	9/17/1998	12/16/1998	3/11/1999	6/15/1999	9/20/1999	12/16/1999	3/16/2000	6/13/2000	9/22/2000
Sample Id:	E190709	82954-3411	84367-8361	85755-2509	90995-6100	92195-0021	3991972004	3993622023	3001157001	3002633024	E261212
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, mg/m3
Barometric Pressure, mm/Hg
Temperature, Deg C.

	1.6	4	2	2.9	3	4	3	4	3	1	1.7
	--	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--	--

Sample Id:	E190711	82954-3413	84367-8363	85755-2511	90995-6102	92195-0023	3991972006	3993622024	3001157002	E261214
	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, mg/m3
Barometric Pressure, mm/Hg
Temperature, Deg C.

	1.3	<1	<1	<1	<1	<1	2	<1	<1	<0.4
	--	--	--	--	--	--	--	--	--	--
	--	--	--	--	--	--	--	--	--	--

-- = Not analyzed.
(1) Full sample number includes AR-17360

SITE: 87-3
 REVISION: 1/5/2010

Sample Date:	12/20/2000	3/21/2001	6/13/2001	9/13/2001	12/19/2001	4/2/2003
Sample Id:	E268246	E274369	E281008	E287735	E295696	(1)-040203-JB-003
	Influent	Influent	Influent	Influent	Influent	Influent

Trichloroethene, mg/m3	1.3	0.6	1.3	1.5	1.2	2.7
Barometric Pressure, mm/Hg	--	--	--	--	--	--
Temperature, Deg C.	--	--	--	--	--	--

Sample Id:	E268248	E274370	E281010	E287737	E295698	(1)-040203-JB-001
	Effluent	Effluent	Effluent	Effluent	Effluent	Effluent

Trichloroethene, mg/m3	0.51	<0.4	<0.4	<0.4	<0.4	0.7
Barometric Pressure, mm/Hg	--	--	--	--	--	--
Temperature, Deg C.	--	--	--	--	--	--

General Motors
Grand Rapids Metal Fabrication Plant
Soil Vapor Recovery System Summary/Flow Data

SITE: 87-3
REVISION: 1/5/2010

Date	Flow Meter Reading (%)	Air Flow Rate (ACFM)
02/21/89	100	NA
03/02/89	103	180
03/15/89	102	102359
03/20/89	102	289099
03/30/89	101	741130
04/06/89	102	979200
04/14/89	102	577020
04/21/89	102	NA
05/05/89	100	152
05/22/89	101	NA
06/09/89	101	NA
06/23/89	101	NA
07/10/89	101	NA
07/28/89	102	NA
08/11/89	105	NA
08/22/89	101	NA
09/14/89	100	NA
10/13/89	NA	NA
11/08/89	102	NA
12/15/89	103	NA
01/05/90	104	NA
02/09/90	103	NA
03/07/90	103	NA
04/04/90	103	NA
05/03/90	105	NA
06/04/90	104	NA
07/05/90	104	NA
07/20/90	104	NA
08/08/90	104	NA
09/11/90	105	NA
10/02/90	104	NA
11/09/90	105	NA
12/03/90	130	NA
01/14/91	105	NA
03/05/91	NA	NA
03/26/91	105	NA
06/06/91	105	NA
09/03/91	105	NA
09/26/91	105	NA
09/26/91	105	NA
12/02/91	103	NA
01/06/92	NA	NA
01/27/92	105	NA
03/10/92	105	NA
06/30/92	100	NA
12/11/92	73	85.9
02/12/93	74	87.2

NA = Not Available

Note: Airzorb carbon units replaced with GM-assembled carbon units in December of 1991.

Grand Rapids Metal Fabrication Plant

Soil Vapor Recovery System Summary/Flow Data

SITE: 87-3
 REVISION: 1/5/2010

Date	Flow Meter Reading (%)	Air Flow Rate (ACFM)
03/11/93	74	87.2
06/12/93	75	88.5
09/15/93	76	89.8
12/17/93	75	88.5
03/16/94	75	88.5
06/14/94	75	88.5
09/14/94	75	88.5
12/16/94	75	88.5
03/17/95	75	88.5
06/20/95	60	70.0
09/14/95	74	87.2
12/19/95	74	87.2
03/19/96	75	88.5
06/13/96	75	88.5
09/13/96	74	87.2
12/13/96	74	87.2
03/13/97	72	84.6
06/19/97	75	88.5
09/19/97	72	84.6
12/17/97	70	82.0
03/12/98	70	82.0
06/17/98	70	82.0
09/17/98	86	102.8
12/16/98	70	80.0
03/11/99	70	82.0
06/15/99	68	79.4
09/20/99	69	80.7
12/16/99	68	79.4
03/16/00	74	87.2
06/13/00	70	82.0
09/22/00	75	88.5
12/20/00	72	84.6
03/21/01	63	72.9
06/13/01	72	84.6
09/13/01	72	84.6
12/19/01	70	82.0

Note: Airzorb carbon units replaced with GM-assembled carbon units in December of 1991.
 SVE system shutdown in May 2003