

October 22, 2010

Mr. James Innes  
Field Operations  
Michigan Department of Natural Resources and Environment  
Remediation and Redevelopment Division  
P.O. Box 30242  
Lansing, Michigan 48909

Re: Linden Road Landfill  
Quarterly Ground Water Sampling  
Monitoring Results - Flint, Michigan

File: 14774/46340/Rpts/Groundwater

Dear Mr. Innes:

This report summarizes the quarterly groundwater monitoring event performed at the Linden Road Landfill site, located in Flint Township, Michigan. The sampling event was performed on September 2, 10 to monitor the seasonal fluctuations of vinyl chloride concentrations in monitoring wells MW-03S, MW-14S, and MW-15S.

The groundwater monitoring was in response to your November 18, 2008 letter indicating that in order for the Michigan Department of Natural Resources and Environment (MDNRE) to agree to a suspension of groundwater monitoring at the site, analytical results must be below residential groundwater protection criteria in wells MW-14S and MW-15S for four consecutive quarterly sampling events. The letter also indicated that there must be "no marked increase" in vinyl chloride in the groundwater at MW-03S. Based on the MDNRE's request, additional groundwater monitoring was initiated.

### **GROUNDWATER SAMPLING**

Groundwater samples were collected on September 2, 2010, as well as quality assurance and quality control (QA/QC) samples consisting of one duplicate, one equipment blank, and one trip blank. The samples were shipped under chain-of-custody to Merit Laboratories of East Lansing, Michigan and analyzed for volatile organic compounds (VOCs) using EPA Method 8260B. Table 1, attached, is a summary of the analytical results. Also attached is a figure indicating the location of the monitoring wells, and a copy of the analytical report.

### **SAMPLING RESULTS AND DISCUSSION**

Laboratory analytical results indicated that concentrations of VOCs for the September 2010 sampling event were below the most restrictive Part 201 Generic Cleanup Criteria and Screening Levels with the exception of vinyl chloride. Vinyl chloride was detected in monitoring wells as follows:

Mr. Innes  
October 22, 2010  
Page 2

**Table -2 Vinyl chloride results.**

Well	Fall 2007	Winter 2008	Summer 2008	Summer 2009	Fall 2009	Winter 2010	Spring 2010	Fall 2010
MW-03S	<b>8 µg/L</b>	<1 µg/L	4 µg/L	1 µg/L	<b>8 µg/L</b>	<b>7 µg/L</b>	<b>7 µg/L</b>	<b>11 µg/L</b>
MW-14S	<b>45 µg/L</b>	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	2 µg/L
MW-15S	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L

Note: Bold indicates vinyl chloride exceeds Part 201 Generic Cleanup Criteria of 2 µg/L.

Historic vinyl chloride concentrations in monitoring well MW-03S ranged from <1 µg/L to 24 µg/L for ten sampling events conducted between October 1999 through May 2005. In the eight sampling events conducted between November 2007 and September 2010, concentrations ranged from 1 µg/L to 11 µg/L.

Concentrations from monitoring well MW-14S ranged from <1 µg/L to 4 µg/L for four sampling events conducted between December 2004 to May 2005. In the eight sampling events conducted between November 2007 and September 2010, concentrations ranged from <1 µg/L to 45 µg/L with six consecutive monitoring events at <1 µg/L with the last event at 2 µg/L..

Concentrations from monitoring well MW-15S for the seven sampling events conducted between November 2007 and June 2010 have been <1 µg/L.

Based on the results of the current and the previous rounds of sampling, it is apparent that vinyl chloride in the shallow water-bearing zone is not migrating off site. Vinyl chloride has never been detected in down gradient well MW-15S. In addition, there has been "no marked increase" in vinyl chloride in any of the three monitoring wells between 2007 and 2010. Based on these facts Motors Liquidation Company requests suspension of groundwater monitoring.

Should you have questions or concerns about the information in this report, please contact David Favero at 217.522.6714.

Very truly yours,

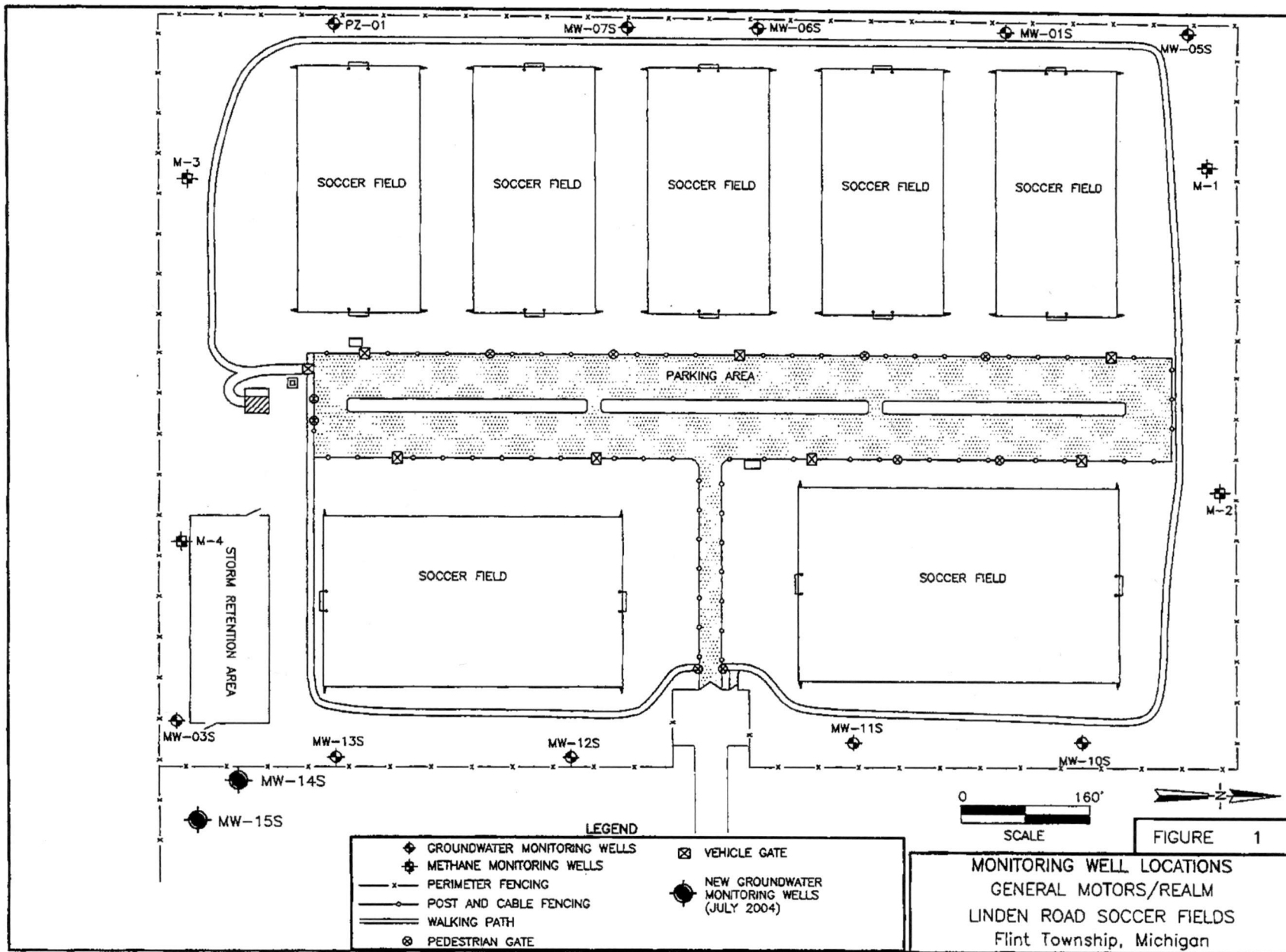
O'BRIEN & GERE ENGINEERS, INC.



Jim Alfonsi  
Project Associate

Enclosure

cc: David Favero – Motors Liquidation Company



**Table 1**  
**Linden Road Landfill**  
**Post-Closure Monitoring - Analytical Results**  
**Volatile Organics (VOC's)**

Sample Tag Sample Date	Most Restrictive Part 201 Cleanup Criteria (ug/L)	MW-15S								MW-03S								MW-14S							
		11/8/07	2/26/08	6/30/08	6/30/09	11/17/09	2/19/10	6/18/10	9/2/10	11/8/07	2/26/08	6/30/08	6/30/09	11/17/09	2/19/10	6/18/10	9/2/10	11/8/07	2/26/08	6/30/08	6/30/09	11/17/09	2/19/10	6/18/10	9/2/10
<b>Volatile Organics (ug/L)</b>																									
2-Butanone (MEK)	2200	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	<1	<1	<20	<20	<20	<20	<1	<1	140	20	<1	<1	<1	<20
1,1-Dichloroethane	740	<1	<1	<1	<1	<1	<1	<1	<1	6	2	4	2	4	3	4	<1	2	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.3	<1	<1	<1	<1	<1	<1	<1
cis-1,2-Dichloroethene	70	<1	<1	<1	<1	<1	<1	<1	<1	6	1	2	<1	3	3	4	7	57	3	2	<1	<1	<1	<1	11
trans-1,2-Dichloroethene	100	<1	<1	<1	<1	<1	<1	<1	<1	0.2	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.7	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	2	<1	<1	<1	<1	<1	<1	<1	<1	8	2	4	1	8	7	7	11	45	<1	<1	<1	<1	<1	<1	2



# Analytical Laboratory Report

Revised Report

Report ID: S45586.01(02)  
Generated on 09/23/2010  
Replaces report S45586.01(01) generated on 09/17/2010

Report to

Attention: Jim Alfonsi  
O'Brien & Gere Engineers, Inc.  
37000 Grand River Ave.  
Suite 260  
Farmington, MI 48335

Phone: 248-477-5701 FAX:  
Email: alfonsjm@obg.com

Report produced by

Merit Laboratories  
2680 East Lansing Drive  
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S45586.01-S45586.09  
Project: Linden Rd. Landfill  
Collected Date: 09/02/2010  
Submitted Date/Time: 09/03/2010 13:10  
Sampled by: Kevin Schneider  
P.O. #:

Spike flag added to the MSD sample

Report Notes

Results relate only to items tested as received by the laboratory.  
Methods may be modified for improved performance.  
Results reported on a dry weight basis where applicable.  
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.  
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)  
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak  
Laboratory Director



# Analytical Laboratory Report

Revised Report

## Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S45586.01	MW-15S	Groundwater	09/02/2010 10:15
S45586.02	MW-15S MS	Groundwater	09/02/2010 10:15
S45586.03	MW-15S MSD	Groundwater	09/02/2010 10:15
S45586.04	MW-14S	Groundwater	09/02/2010 11:40
S45586.05	MW-03S	Groundwater	09/02/2010 13:00
S45586.06	FB-01	Water Quality	09/02/2010 13:15
S45586.07	EB-01	Water Quality	09/02/2010
S45586.08	Dup-01	Groundwater	09/02/2010
S45586.09	TB-01	Water Quality	09/02/2010



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.01  
 Sample Tag: MW-15S  
 Collected Date/Time: 09/02/2010 10:15  
 Matrix: Groundwater  
 COC Reference: 45934

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	09/16/10 13:56	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	09/16/10 13:56	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/10 13:56	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	09/16/10 13:56	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/10 13:56	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	09/16/10 13:56	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	09/16/10 13:56	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/10 13:56	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	156-80-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	09/16/10 13:56	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 13:56	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	09/16/10 13:56	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH		
o-Xylene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH	100-42-5	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.01 (continued)

Sample Tag: MW-15S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst CAS #	Flags
<b>Organics - Volatiles (continued)</b>							
<b>TCL Volatile Organics 8260 (continued)</b>							
Isopropylbenzene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH 98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH 75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH 541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH 106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH 95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	09/16/10 13:56	JGH 96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	09/16/10 13:56	JGH 120-82-1	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.02  
 Sample Tag: MW-15S MS  
 Collected Date/Time: 09/02/2010 10:15  
 Matrix: Groundwater  
 COC Reference: 45934

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	30	8260B	09/16/10 16:14	JGH	76-13-1	1
Acetone	40	ug/L	20	8260B	09/16/10 16:14	JGH	67-64-1	1
Carbon disulfide	49	ug/L	5	8260B	09/16/10 16:14	JGH	75-15-0	1
Methyl Acetate	40	ug/L	10	8260B	09/16/10 16:14	JGH	79-20-9	1
tert-Methyl butyl ether (MTBE)	49	ug/L	5	8260B	09/16/10 16:14	JGH	1634-04-4	1
2-Butanone (MEK)	50	ug/L	20	8260B	09/16/10 16:14	JGH	78-93-3	1
Dichlorodifluoromethane	67	ug/L	1	8260B	09/16/10 16:14	JGH	75-71-8	1
Chloromethane	58	ug/L	1	8260B	09/16/10 16:14	JGH	74-87-3	1
Vinyl chloride	55	ug/L	1	8260B	09/16/10 16:14	JGH	75-01-4	1
Bromomethane	56	ug/L	2	8260B	09/16/10 16:14	JGH	74-83-9	1
Chloroethane	53	ug/L	1	8260B	09/16/10 16:14	JGH	75-00-3	1
Trichlorofluoromethane	56	ug/L	1	8260B	09/16/10 16:14	JGH	75-69-4	1
1,1-Dichloroethene	55	ug/L	1	8260B	09/16/10 16:14	JGH	75-35-4	1
Methylene chloride	48	ug/L	5	8260B	09/16/10 16:14	JGH	75-09-2	1
trans-1,2-Dichloroethene	51	ug/L	1	8260B	09/16/10 16:14	JGH	156-80-5	1
1,1-Dichloroethane	49	ug/L	1	8260B	09/16/10 16:14	JGH	75-34-3	1
cis-1,2-Dichloroethene	49	ug/L	1	8260B	09/16/10 16:14	JGH	156-59-2	1
Chloroform	50	ug/L	1	8260B	09/16/10 16:14	JGH	67-66-3	1
1,1,1-Trichloroethane	52	ug/L	1	8260B	09/16/10 16:14	JGH	71-55-6	1
Cyclohexane	27	ug/L	1	8260B	09/16/10 16:14	JGH	110-82-7	1
4-Methyl-2-pentanone (MIBK)	50	ug/L	10	8260B	09/16/10 16:14	JGH	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 16:14	JGH	591-78-6	1
Carbon tetrachloride	49	ug/L	1	8260B	09/16/10 16:14	JGH	56-23-5	1
Benzene	49	ug/L	1	8260B	09/16/10 16:14	JGH	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	8260B	09/16/10 16:14	JGH	107-06-2	1
Trichloroethene	48	ug/L	1	8260B	09/16/10 16:14	JGH	79-01-6	1
1,2-Dichloropropane	49	ug/L	1	8260B	09/16/10 16:14	JGH	78-87-5	1
Bromodichloromethane	48	ug/L	1	8260B	09/16/10 16:14	JGH	75-27-4	1
Methyl cyclohexane	50	ug/L	20	8260B	09/16/10 16:14	JGH	108-87-2	1
cis-1,3-Dichloropropene	48	ug/L	1	8260B	09/16/10 16:14	JGH	10061-01-5	1
Toluene	47	ug/L	1	8260B	09/16/10 16:14	JGH	108-88-3	1
trans-1,3-Dichloropropene	47	ug/L	1	8260B	09/16/10 16:14	JGH	10061-02-6	1
1,1,2-Trichloroethane	46	ug/L	1	8260B	09/16/10 16:14	JGH	79-00-5	1
Tetrachloroethene	47	ug/L	1	8260B	09/16/10 16:14	JGH	127-18-4	1
Dibromochloromethane	45	ug/L	1	8260B	09/16/10 16:14	JGH	124-48-1	1
1,2-Dibromoethane	44	ug/L	1	8260B	09/16/10 16:14	JGH	106-93-4	1
Chlorobenzene	46	ug/L	1	8260B	09/16/10 16:14	JGH	108-90-7	1
1,1,2,2-Tetrachloroethane	46	ug/L	1	8260B	09/16/10 16:14	JGH	79-34-5	1
Ethylbenzene	48	ug/L	1	8260B	09/16/10 16:14	JGH	100-41-4	1
p,m-Xylene	98	ug/L	1	8260B	09/16/10 16:14	JGH		1
o-Xylene	49	ug/L	1	8260B	09/16/10 16:14	JGH	95-47-6	1

1-Spiked at 50ug/L



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.02 (continued)

Sample Tag: MW-15S MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>TCL Volatile Organics 8260 (continued)</b>								
Styrene	46	ug/L	1	8260B	09/16/10 16:14	JGH	100-42-5	1
Isopropylbenzene	45	ug/L	1	8260B	09/16/10 16:14	JGH	98-82-8	1
Bromoform	45	ug/L	1	8260B	09/16/10 16:14	JGH	75-25-2	1
1,3-Dichlorobenzene	49	ug/L	1	8260B	09/16/10 16:14	JGH	541-73-1	1
1,4-Dichlorobenzene	48	ug/L	1	8260B	09/16/10 16:14	JGH	106-46-7	1
1,2-Dichlorobenzene	48	ug/L	1	8260B	09/16/10 16:14	JGH	95-50-1	1
1,2-Dibromo-3-chloropropane	45	ug/L	1	8260B	09/16/10 16:14	JGH	96-12-8	1
1,2,4-Trichlorobenzene	49	ug/L	2	8260B	09/16/10 16:14	JGH	120-82-1	1

1-Spiked at 50ug/L



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.03  
Sample Tag: MW-15S MSD  
Collected Date/Time: 09/02/2010 10:15  
Matrix: Groundwater  
COC Reference: 45934

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	60	ug/L	30	8260B	09/16/10 16:34	JGH	76-13-1	1
Acetone	40	ug/L	20	8260B	09/16/10 16:34	JGH	67-64-1	1
Carbon disulfide	53	ug/L	5	8260B	09/16/10 16:34	JGH	75-15-0	1
Methyl Acetate	50	ug/L	10	8260B	09/16/10 16:34	JGH	79-20-9	1
tert-Methyl butyl ether (MTBE)	53	ug/L	5	8260B	09/16/10 16:34	JGH	1634-04-4	1
2-Butanone (MEK)	50	ug/L	20	8260B	09/16/10 16:34	JGH	78-93-3	1
Dichlorodifluoromethane	69	ug/L	1	8260B	09/16/10 16:34	JGH	75-71-8	1
Chloromethane	60	ug/L	1	8260B	09/16/10 16:34	JGH	74-87-3	1
Vinyl chloride	58	ug/L	1	8260B	09/16/10 16:34	JGH	75-01-4	1
Bromomethane	60	ug/L	2	8260B	09/16/10 16:34	JGH	74-83-9	1
Chloroethane	57	ug/L	1	8260B	09/16/10 16:34	JGH	75-00-3	1
Trichlorofluoromethane	60	ug/L	1	8260B	09/16/10 16:34	JGH	75-69-4	1
1,1-Dichloroethene	59	ug/L	1	8260B	09/16/10 16:34	JGH	75-35-4	1
Methylene chloride	52	ug/L	5	8260B	09/16/10 16:34	JGH	75-09-2	1
trans-1,2-Dichloroethene	54	ug/L	1	8260B	09/16/10 16:34	JGH	156-60-5	1
1,1-Dichloroethane	52	ug/L	1	8260B	09/16/10 16:34	JGH	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	8260B	09/16/10 16:34	JGH	156-59-2	1
Chloroform	54	ug/L	1	8260B	09/16/10 16:34	JGH	67-66-3	1
1,1,1-Trichloroethane	56	ug/L	1	8260B	09/16/10 16:34	JGH	71-55-6	1
Cyclohexane	29	ug/L	1	8260B	09/16/10 16:34	JGH	110-82-7	1
4-Methyl-2-pentanone (MIBK)	50	ug/L	10	8260B	09/16/10 16:34	JGH	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 16:34	JGH	591-78-6	1
Carbon tetrachloride	53	ug/L	1	8260B	09/16/10 16:34	JGH	56-23-5	1
Benzene	52	ug/L	1	8260B	09/16/10 16:34	JGH	71-43-2	1
1,2-Dichloroethane	53	ug/L	1	8260B	09/16/10 16:34	JGH	107-06-2	1
Trichloroethene	51	ug/L	1	8260B	09/16/10 16:34	JGH	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	8260B	09/16/10 16:34	JGH	78-87-5	1
Bromodichloromethane	51	ug/L	1	8260B	09/16/10 16:34	JGH	75-27-4	1
Methyl cyclohexane	50	ug/L	20	8260B	09/16/10 16:34	JGH	108-87-2	1
cis-1,3-Dichloropropene	51	ug/L	1	8260B	09/16/10 16:34	JGH	10061-01-5	1
Toluene	51	ug/L	1	8260B	09/16/10 16:34	JGH	108-88-3	1
trans-1,3-Dichloropropene	51	ug/L	1	8260B	09/16/10 16:34	JGH	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	8260B	09/16/10 16:34	JGH	79-00-5	1
Tetrachloroethene	50	ug/L	1	8260B	09/16/10 16:34	JGH	127-18-4	1
Dibromochloromethane	49	ug/L	1	8260B	09/16/10 16:34	JGH	124-48-1	1
1,2-Dibromoethane	47	ug/L	1	8260B	09/16/10 16:34	JGH	106-93-4	1
Chlorobenzene	49	ug/L	1	8260B	09/16/10 16:34	JGH	108-90-7	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	8260B	09/16/10 16:34	JGH	79-34-5	1
Ethylbenzene	51	ug/L	1	8260B	09/16/10 16:34	JGH	100-41-4	1
p,m-Xylene	104	ug/L	1	8260B	09/16/10 16:34	JGH		1
o-Xylene	52	ug/L	1	8260B	09/16/10 16:34	JGH	95-47-6	1

1-Spiked at 50ug/L



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.03 (continued)

Sample Tag: MW-15S MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>TCL Volatile Organics 8260 (continued)</b>								
Styrene	49	ug/L	1	8260B	09/16/10 16:34	JGH	100-42-5	1
Isopropylbenzene	47	ug/L	1	8260B	09/16/10 16:34	JGH	98-82-8	1
Bromoform	49	ug/L	1	8260B	09/16/10 16:34	JGH	75-25-2	1
1,3-Dichlorobenzene	52	ug/L	1	8260B	09/16/10 16:34	JGH	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	8260B	09/16/10 16:34	JGH	106-46-7	1
1,2-Dichlorobenzene	52	ug/L	1	8260B	09/16/10 16:34	JGH	95-50-1	1
1,2-Dibromo-3-chloropropane	49	ug/L	1	8260B	09/16/10 16:34	JGH	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	2	8260B	09/16/10 16:34	JGH	120-82-1	1

1-Spiked at 50ug/L



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.04  
 Sample Tag: MW-14S  
 Collected Date/Time: 09/02/2010 11:40  
 Matrix: Groundwater  
 COC Reference: 45934

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	09/16/10 14:16	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	09/16/10 14:16	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/10 14:16	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	09/16/10 14:16	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/10 14:16	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	09/16/10 14:16	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	74-87-3	
Vinyl chloride	2	ug/L	1	8260B	09/16/10 14:16	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	09/16/10 14:16	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/10 14:16	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	75-34-3	
cis-1,2-Dichloroethene	11	ug/L	1	8260B	09/16/10 14:16	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	09/16/10 14:16	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 14:16	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	09/16/10 14:16	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH		
o-Xylene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	100-42-5	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.04 (continued)

Sample Tag: MW-14S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>TCL Volatile Organics 8260 (continued)</b>								
Isopropylbenzene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	09/16/10 14:16	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	09/16/10 14:16	JGH	120-82-1	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.05  
 Sample Tag: MW-03S  
 Collected Date/Time: 09/02/2010 13:00  
 Matrix: Groundwater  
 COC Reference: 45934

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	09/16/10 14:36	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	09/16/10 14:36	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/10 14:36	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	09/16/10 14:36	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/10 14:36	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	09/16/10 14:36	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	74-87-3	
Vinyl chloride	11	ug/L	1	8260B	09/16/10 14:36	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	09/16/10 14:36	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/10 14:36	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	156-60-5	
1,1-Dichloroethane	5	ug/L	1	8260B	09/16/10 14:36	JGH	75-34-3	
cis-1,2-Dichloroethene	7	ug/L	1	8260B	09/16/10 14:36	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	09/16/10 14:36	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 14:36	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	09/16/10 14:36	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH		
o-Xylene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	100-42-5	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.05 (continued)

Sample Tag: MW-03S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>TCL Volatile Organics 8260 (continued)</b>								
Isopropylbenzene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	09/16/10 14:36	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	09/16/10 14:36	JGH	120-82-1	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.06  
 Sample Tag: FB-01  
 Collected Date/Time: 09/02/2010 13:15  
 Matrix: Water Quality  
 COC Reference: 45934

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	09/16/10 14:55	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	09/16/10 14:55	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/10 14:55	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	09/16/10 14:55	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/10 14:55	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	09/16/10 14:55	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	09/16/10 14:55	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/10 14:55	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	09/16/10 14:55	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 14:55	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	09/16/10 14:55	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH		
o-Xylene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	100-42-5	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.06 (continued)

Sample Tag: FB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>TCL Volatile Organics 8260 (continued)</b>								
Isopropylbenzene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	09/16/10 14:55	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	09/16/10 14:55	JGH	120-82-1	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.07  
 Sample Tag: EB-01  
 Collected Date/Time: 09/02/2010 :  
 Matrix: Water Quality  
 COC Reference: 45934

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	09/16/10 15:15	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	09/16/10 15:15	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/10 15:15	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	09/16/10 15:15	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/10 15:15	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	09/16/10 15:15	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	09/16/10 15:15	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/10 15:15	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	09/16/10 15:15	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 15:15	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	09/16/10 15:15	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH		
o-Xylene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	100-42-5	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.07 (continued)

Sample Tag: EB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>TCL Volatile Organics 8260 (continued)</b>								
Isopropylbenzene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	09/16/10 15:15	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	09/16/10 15:15	JGH	120-82-1	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.08  
Sample Tag: Dup-01  
Collected Date/Time: 09/02/2010 :  
Matrix: Groundwater  
COC Reference: 45934

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	09/16/10 15:34	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	09/16/10 15:34	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/10 15:34	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	09/16/10 15:34	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/10 15:34	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	09/16/10 15:34	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	74-87-3	
Vinyl chloride	11	ug/L	1	8260B	09/16/10 15:34	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	09/16/10 15:34	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/10 15:34	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	156-60-5	
1,1-Dichloroethane	5	ug/L	1	8260B	09/16/10 15:34	JGH	75-34-3	
cis-1,2-Dichloroethene	7	ug/L	1	8260B	09/16/10 15:34	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	09/16/10 15:34	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 15:34	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	09/16/10 15:34	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH		
o-Xylene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	100-42-5	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.08 (continued)

Sample Tag: Dup-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>TCL Volatile Organics 8260 (continued)</b>								
Isopropylbenzene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	09/16/10 15:34	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	09/16/10 15:34	JGH	120-82-1	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.09  
 Sample Tag: TB-01  
 Collected Date/Time: 09/02/2010 :  
 Matrix: Water Quality  
 COC Reference: 45934

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>TCL Volatile Organics 8260</b>								
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	09/16/10 15:54	JGH	76-13-1	
Acetone	Not detected	ug/L	20	8260B	09/16/10 15:54	JGH	67-64-1	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/10 15:54	JGH	75-15-0	
Methyl Acetate	Not detected	ug/L	10	8260B	09/16/10 15:54	JGH	79-20-9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/10 15:54	JGH	1634-04-4	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	09/16/10 15:54	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	75-71-8	
Chloromethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	75-01-4	
Bromomethane	Not detected	ug/L	2	8260B	09/16/10 15:54	JGH	74-83-9	
Chloroethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/10 15:54	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	156-59-2	
Chloroform	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	67-66-3	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	71-55-6	
Cyclohexane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	110-82-7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	09/16/10 15:54	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/10 15:54	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	75-27-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	09/16/10 15:54	JGH	108-87-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	127-18-4	
Dibromochloromethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	108-90-7	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	79-34-5	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH		
o-Xylene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	100-42-5	



# Analytical Laboratory Report

Revised Report

Lab Sample ID: S45586.09 (continued)

Sample Tag: TB-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>TCL Volatile Organics 8260 (continued)</b>								
Isopropylbenzene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	75-25-2	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	95-50-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	09/16/10 15:54	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	09/16/10 15:54	JGH	120-82-1	



2680 East Lansing Dr., East Lansing, MI 48823  
 Phone (517) 332-0167 Fax (517) 332-6333  
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

45934

**REPORT TO** **CHAIN OF CUSTODY RECORD** **INVOICE TO**

CONTACT NAME: Jim Alfonsi  
 COMPANY: O'Brien & Gere  
 ADDRESS: 37000 Grand River Ste 200  
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335  
 PHONE NO.: 248-477-5701 FAX NO.: \_\_\_\_\_ P.O. NO.: \_\_\_\_\_  
 E-MAIL ADDRESS: \_\_\_\_\_ QUOTE NO.: \_\_\_\_\_

CONTACT NAME: \_\_\_\_\_ SAME   
 COMPANY: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
 PHONE NO.: \_\_\_\_\_ FAX NO.: \_\_\_\_\_ P.O. NO.: \_\_\_\_\_

**ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)**

PROJECT NO./NAME: Linden Rd Landfill SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider  
 TURNAROUND TIME REQUIRED:  24 HR  48 HR  72 HR  STANDARD  OTHER  
 DELIVERABLES REQUIRED:  STANDARD  LEVEL II  LEVEL III  OTHER

# Containers & Preservatives		HCL	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER	SPECIAL INSTRUCTIONS/NOTES
Matrix	# of Bottles							
GW	2	2						VOCs  O'Brien & Gere will be performing data validation Vols by 82608
GW	4	4						
GW	2	2						
GW	2	2						
QC	2	2						
QC	2	2						
GW	2	2						
QC	1	1						

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER
	DATE	TIME										
45585.01	9/2/10	1015	MW-15S	GW	2		2					
.02	10/3	1015	MW-15S MS/MSD	GW	4		4					
.04		1140	MW-14S	GW	2		2					
.05		1300	MW-03S	GW	2		2					
.06		1315	FB-01	QC	2		2					
.07		-	EB-01	QC	2		2					
.08		-	DUP-01	GW	2		2					
.09		-	TB-01	QC	1		1					

RELINQUISHED BY: [Signature] DATE: 9/3/10 TIME: 11:50  
 RECEIVED BY: [Signature] DATE: 9/3/10 TIME: 11:50

RELINQUISHED BY: [Signature] DATE: 9-3-10 TIME: 1310  
 RECEIVED BY: [Signature] DATE: 9-3-10 TIME: 1310  
 SEAL NO. \_\_\_\_\_ SEAL INTACT YES  NO  INITIALS \_\_\_\_\_ NOTES: TEMP. ON ARRIVAL 76

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE