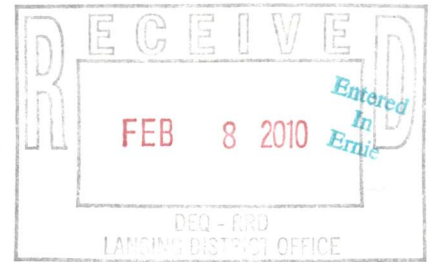




O'BRIEN & GERE



January 25, 2010

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

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

File: 14774/45035/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 November 17, 2009 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 Environmental Quality (MDEQ) 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 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 MDEQ's request, additional groundwater monitoring was initiated.

GROUNDWATER SAMPLING

Groundwater samples were collected on November 17, 2009 (fall) from MW-03S, MW-14S, and MW-15S, 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 copies of the analytical and data validation reports.

SAMPLING RESULTS AND DISCUSSION

Laboratory analytical results indicated that concentrations of VOCs for the November 2009 sampling event were below the most restrictive MDEQ Part 201 Generic Cleanup Criteria and Screening Levels with the exception of vinyl chloride. Vinyl chloride was detected in monitoring wells as follows:

Table -2 Vinyl chloride results.

Well	Fall 2008	Winter 2008	Summer 2008	Summer 2009	Fall 2009
MW-03S	8 µg/L	<1 µg/L	4 µg/L	1 µg/L	8 µg/L
MW-14S	45 µg/L	<1 µg/L	<1 µg/L	<1 µg/L	<1 µg/L
MW-15S	<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 five sampling events conducted between November 2007 and November 2009, concentrations ranged from <1 µg/L to 8 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 five sampling events conducted between November 2007 and November 2009, concentrations ranged from <1 µg/L to 45 µg/L with the last four events at <1 µg/L.

Concentrations from monitoring well MW-15S for the five sampling events conducted between November 2007 and November 2009 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.

O'Brien & Gere will continue groundwater monitoring over next two quarters collecting groundwater samples in February 2010 (winter) and June 2010 (spring). A report will be submitted in July 2010 summarizing the results of the sampling events.

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

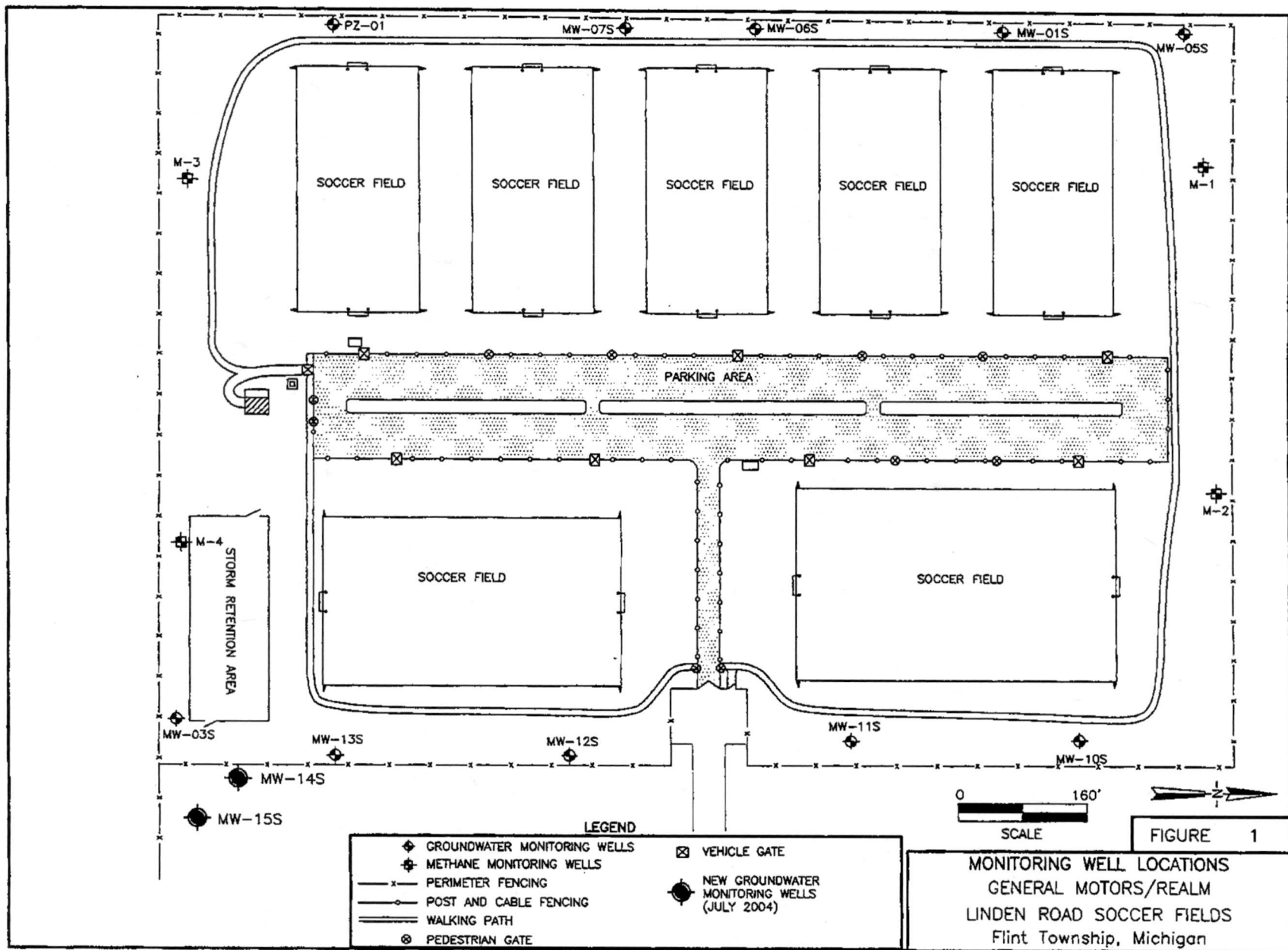
Enclosure

cc: David Favero – Motors Liquidation Company
Marianne Secrest – O'Brien & Gere

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-15S	MW-15S	MW-15S	MW-15S	MW-03S	MW-03S	MW-03S	MW-03S	MW-03S	MW-14S	MW-14S	MW-14S	MW-14S	MW-14S
		11/8/07	2/26/08	6/30/08	6/30/09	11/17/09	11/8/07	2/26/08	6/30/08	6/30/09	11/17/09	11/8/07	2/26/08	6/30/08	6/30/09	11/17/09
2-Butanone (MEK)	2200	<1	<1	<1	<1	<1	<1	<1	<1	<1	<20	<1	<1	140	20	<1
1,1-Dichloroethane	740	<1	<1	<1	<1	<1	6	2	4	2	4	2	<1	<1	<1	<1
1,2-Dichloropropane	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.3	<1	<1	<1	<1
cis-1,2-Dichloroethene	70	<1	<1	<1	<1	<1	6	1	2	<1	3	57	3	2	<1	<1
trans-1,2-Dichloroethene	100	<1	<1	<1	<1	<1	0.2	<1	<1	<1	<1	1	<1	<1	<1	<1
Trichloroethene	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.7	<1	<1	<1	<1
Vinyl chloride	2	<1	<1	<1	<1	<1	8	2	4	1	8	45	<1	<1	<1	<1

NS - Not Sampled
EPA Method Used - 8260
Dup - Duplicate Analysis



To: James Alfonsi **cc:**
From: KA Storne
Re: Data Validation Memo for the GM Linden Rd Landfill Site,
 Sampling Performed November 2010
File: 4966/45305.001.110
Date: January 14, 2010

This data validation memorandum provides the data validation results for the groundwater samples collected for the GM Linden Road Landfill Site in Michigan. O'Brien & Gere conducted sample collection activities in November 2009.

The following table summarizes the analysis performed for this sampling event.

Table 1. Analytical method and reference		
Parameter	Method	Reference
VOCs	USEPA Method 8260B	1
Note: 1. United States Environmental Protection Agency (USEPA). 2004. <i>Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846</i> , 3rd Edition, Update IIIB. Washington D.C. VOCs indicates volatile organic compounds.		

Merit Laboratories, Inc. (Merit Labs) of East Lansing, Michigan performed the analyses. The laboratory package contained quality control analysis and supportive raw data.

The list of samples that were submitted to the laboratory for this project is presented in Attachment A. Attachment B presents the specific data validation approach applied to data generated for this investigation. Attachment C presents the Laboratory QA/QC analyses definitions.

Full validation was performed on the samples collected for this sampling event. The analytical data generated for this investigation were evaluated by O'Brien & Gere using the quality assurance/quality control (QA/QC) criteria presented in the following document:

- United States Environmental Protection Agency (USEPA). 2004. *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods, SW-846*, 3rd Edition, Update IIIB. Washington D.C.

Data affected by excursions from these QA/QC criteria were qualified using the following USEPA data validation guidance and professional judgment:

- USEPA. 1999. *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*. Washington D.C.

The application of this validation guideline has been modified to reflect the requirements of the method utilized by Merit Labs.

In accordance with the USEPA guidance, and utilizing professional judgment, the following qualifiers are used in this type of data validation:

- "U" Indicates that the analyte was analyzed for, but was not detected. The associated value indicates the approximate sample concentration necessary to be detected.

- “J” Indicates that the detected analyte is present but the reported value may not be accurate or precise. The result should be considered approximate based on excursions from QA/QC criteria.
- “UJ” Indicates that the analyte was not detected and the quantitation limit (QL) may be inaccurate or imprecise. The result should be considered approximate based on excursions from QA/QC criteria.
- “R” Indicates that the QL or sample result is unreliable and has been rejected due to a major excursion from QA/QC criteria. The analyte may or may not be present in the sample. The data should not be used for qualitative or quantitative purposes.

The validation included checking the following parameters:

- Chain-of-custody records
- Documentation completeness
- Sample collection and preservation
- Holding times
- Blank analysis
- Calibrations
- Gas chromatography/mass spectrometry (GC/MS) instrument check
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) analysis
- Laboratory control sample (LCS) analysis
- Internal standards performance
- Field duplicate analysis
- Target analyte quantification, identification, and quantitation limits (QLs)

The following sections of this memorandum present the results of the comparison of the analytical data to the QA/QC criteria specified above. Based on the QA/QC information review, an overall evaluation of data usability is also presented in the final section.

VOCs DATA EVALUATION SUMMARY

The following QA/QC parameters were found to meet method and validation criteria or did not result in additional qualification of sample results:

- Chain-of-custody records
- Documentation completeness
- Sample collection and preservation
- Holding times
- Blank analysis
- GC/MS instrument check
- Surrogate recoveries
- MS/MSD analysis
- LCS analysis
- Internal standards performance
- Target analyte identification

Excursions from method or validation criteria and additional observations are summarized in the following section.

I. Calibrations

The results for 2-hexanone in the following samples, associated with calibration verification 11/24/09, were qualified as approximate (UJ) due to a minor accuracy excursion: MW-14S, MW-15S, MW-03S, EQP-01, DUP-01 [MW-O3S], Trip Blank.

II. Field duplicate analysis

The results for 1,1-dichloroethane and vinyl chloride in the following field duplicate pair were qualified as approximate (J, UJ) due to minor precision excursions: MW-03S, DUP-01 [MW-O3S].

III. Target analyte quantitation and QLs

Sample results were reported to the QL.

DATA USABILITY

Overall data usability with respect to completeness for the final sample results reported is 100 percent for the VOC data. The VOC data are usable for qualitative and quantitative purposes. Based on the validation performed, the typical completeness goal of 95 percent was met for these analyses.



Analytical Laboratory Report

Report ID: S42577.01(01)
Generated on 11/25/2009

Report to

Attention: Jim Alfonsi/ Marianne Secrest
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington Hills, MI48335

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

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

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

Report Summary

Lab Sample ID(s): S42577.01-S42577.08
Project: Linden Rd. 45035
Collected Date: 11/11/2009 - 11/13/2009
Submitted Date/Time: 11/17/2009 13:35
Sampled by: Stephen Dehring
P.O. #:

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.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (8 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S42577.01	MW-14S	Groundwater	11/13/2009 13:05
S42577.02	MW-15S	Groundwater	11/13/2009 13:55
S42577.03	MW-03S	Groundwater	11/13/2009 15:05
S42577.04	MW-03S MS	Groundwater	11/13/2009 15:10
S42577.05	MW-03S MSD	Groundwater	11/13/2009 15:10
S42577.06	EQP-01	Groundwater	11/13/2009 15:15
S42577.07	DUP-01	Groundwater	11/13/2009
S42577.08	Trip Blank	Groundwater	11/11/2009



Analytical Laboratory Report

Lab Sample ID: S42577.01
 Sample Tag: MW-14S
 Collected Date/Time: 11/13/2009 13:05
 Matrix: Groundwater
 COC Reference: 041336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	11/24/09 15:02	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	11/24/09 15:02	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	11/24/09 15:02	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	11/24/09 15:02	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	11/24/09 15:02	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	11/24/09 15:02	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	11/24/09 15:02	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/24/09 15:02	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	11/24/09 15:02	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	11/24/09 15:02	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	11/24/09 15:02	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	11/24/09 15:02	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S42577.01 (continued)

Sample Tag: MW-14S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	11/24/09 15:02	JGH		



Analytical Laboratory Report

Lab Sample ID: S42577.02
 Sample Tag: MW-15S
 Collected Date/Time: 11/13/2009 13:55
 Matrix: Groundwater
 COC Reference: 041336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	11/24/09 15:20	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	11/24/09 15:20	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	11/24/09 15:20	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	11/24/09 15:20	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	11/24/09 15:20	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	11/24/09 15:20	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	11/24/09 15:20	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/24/09 15:20	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	11/24/09 15:20	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	11/24/09 15:20	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	11/24/09 15:20	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	11/24/09 15:20	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S42577.02 (continued)

Sample Tag: MW-15S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	11/24/09 15:20	JGH		



Analytical Laboratory Report

Lab Sample ID: S42577.03
 Sample Tag: MW-03S
 Collected Date/Time: 11/13/2009 15:05
 Matrix: Groundwater
 COC Reference: 041336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	11/24/09 15:38	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	11/24/09 15:38	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	11/24/09 15:38	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	11/24/09 15:38	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	110-82-7	
1,1-Dichloroethane	4	ug/L	1	8260B	11/24/09 15:38	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	106-46-7	
cis-1,2-Dichloroethene	3	ug/L	1	8260B	11/24/09 15:38	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	11/24/09 15:38	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	11/24/09 15:38	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	11/24/09 15:38	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/24/09 15:38	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	11/24/09 15:38	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	11/24/09 15:38	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	11/24/09 15:38	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	11/24/09 15:38	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S42577.03 (continued)

Sample Tag: MW-03S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	75-69-4	
Vinyl chloride	8	ug/L	1	8260B	11/24/09 15:38	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	11/24/09 15:38	JGH		



Analytical Laboratory Report

Lab Sample ID: S42577.04
 Sample Tag: MW-03S MS
 Collected Date/Time: 11/13/2009 15:10
 Matrix: Groundwater
 COC Reference: 041336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	30	ug/L	20	8260B	11/24/09 16:51	JGH	67-64-1	1
2-Butanone (MEK)	40	ug/L	20	8260B	11/24/09 16:51	JGH	78-93-3	1
Benzene	49	ug/L	1	8260B	11/24/09 16:51	JGH	71-43-2	1
Bromodichloromethane	50	ug/L	1	8260B	11/24/09 16:51	JGH	75-27-4	1
Bromoform	40	ug/L	1	8260B	11/24/09 16:51	JGH	75-25-2	1
Bromomethane	48	ug/L	2	8260B	11/24/09 16:51	JGH	74-83-9	1
Carbon disulfide	45	ug/L	5	8260B	11/24/09 16:51	JGH	75-15-0	1
Carbon tetrachloride	48	ug/L	1	8260B	11/24/09 16:51	JGH	56-23-5	1
Chlorobenzene	48	ug/L	1	8260B	11/24/09 16:51	JGH	108-90-7	1
Chloroethane	48	ug/L	1	8260B	11/24/09 16:51	JGH	75-00-3	1
Chloroform	49	ug/L	1	8260B	11/24/09 16:51	JGH	67-66-3	1
Chloromethane	45	ug/L	1	8260B	11/24/09 16:51	JGH	74-87-3	1
Cyclohexane	49	ug/L	1	8260B	11/24/09 16:51	JGH	110-82-7	1
1,1-Dichloroethane	54	ug/L	1	8260B	11/24/09 16:51	JGH	75-34-3	1
1,1-Dichloroethene	53	ug/L	1	8260B	11/24/09 16:51	JGH	75-35-4	1
1,2-Dibromo-3-chloropropane	47	ug/L	1	8260B	11/24/09 16:51	JGH	96-12-8	1
1,2-Dibromoethane	46	ug/L	1	8260B	11/24/09 16:51	JGH	106-93-4	1
1,2-Dichlorobenzene	47	ug/L	1	8260B	11/24/09 16:51	JGH	95-50-1	1
1,2-Dichloroethane	48	ug/L	1	8260B	11/24/09 16:51	JGH	107-06-2	1
1,2-Dichloropropane	50	ug/L	1	8260B	11/24/09 16:51	JGH	78-87-5	1
1,3-Dichlorobenzene	48	ug/L	1	8260B	11/24/09 16:51	JGH	541-73-1	1
1,4-Dichlorobenzene	46	ug/L	1	8260B	11/24/09 16:51	JGH	106-46-7	1
cis-1,2-Dichloroethene	53	ug/L	1	8260B	11/24/09 16:51	JGH	156-59-2	1
cis-1,3-Dichloropropene	51	ug/L	1	8260B	11/24/09 16:51	JGH	10061-01-5	1
Dibromochloromethane	42	ug/L	1	8260B	11/24/09 16:51	JGH	124-48-1	1
Dichlorodifluoromethane	41	ug/L	1	8260B	11/24/09 16:51	JGH	75-71-8	1
trans-1,2-Dichloroethene	50	ug/L	1	8260B	11/24/09 16:51	JGH	156-60-5	1
trans-1,3-Dichloropropene	50	ug/L	1	8260B	11/24/09 16:51	JGH	10061-02-6	1
Ethylbenzene	49	ug/L	1	8260B	11/24/09 16:51	JGH	100-41-4	1
2-Hexanone	Not detected	ug/L	50	8260B	11/24/09 16:51	JGH	591-78-6	1
Isopropylbenzene	47	ug/L	1	8260B	11/24/09 16:51	JGH	98-82-8	1
Methyl Acetate	50	ug/L	10	8260B	11/24/09 16:51	JGH	79-20-9	1
4-Methyl-2-pentanone (MIBK)	40	ug/L	10	8260B	11/24/09 16:51	JGH	108-10-1	1
tert-Methyl butyl ether (MTBE)	48	ug/L	5	8260B	11/24/09 16:51	JGH	1634-04-4	1
Methyl cyclohexane	50	ug/L	20	8260B	11/24/09 16:51	JGH	108-87-2	1
Methylene chloride	48	ug/L	5	8260B	11/24/09 16:51	JGH	75-09-2	1
Styrene	45	ug/L	1	8260B	11/24/09 16:51	JGH	100-42-5	1
1,1,1-Trichloroethane	49	ug/L	1	8260B	11/24/09 16:51	JGH	71-55-6	1
1,1,1,2,2-Tetrachloroethane	47	ug/L	1	8260B	11/24/09 16:51	JGH	79-34-5	1
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	30	8260B	11/24/09 16:51	JGH	76-13-1	1
1,1,2-Trichloroethane	48	ug/L	1	8260B	11/24/09 16:51	JGH	79-00-5	1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S42577.04 (continued)

Sample Tag: MW-03S MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2,4-Trichlorobenzene	46	ug/L	2	8260B	11/24/09 16:51	JGH	120-82-1	1
Tetrachloroethene	46	ug/L	1	8260B	11/24/09 16:51	JGH	127-18-4	1
Toluene	50	ug/L	1	8260B	11/24/09 16:51	JGH	108-88-3	1
Trichloroethene	48	ug/L	1	8260B	11/24/09 16:51	JGH	79-01-6	1
Trichlorofluoromethane	50	ug/L	1	8260B	11/24/09 16:51	JGH	75-69-4	1
Vinyl chloride	51	ug/L	1	8260B	11/24/09 16:51	JGH	75-01-4	1
o-Xylene	50	ug/L	1	8260B	11/24/09 16:51	JGH	95-47-6	1
p,m-Xylene	99	ug/L	1	8260B	11/24/09 16:51	JGH		1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S42577.05
 Sample Tag: MW-03S MSD
 Collected Date/Time: 11/13/2009 15:10
 Matrix: Groundwater
 COC Reference: 041336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	30	ug/L	20	8260B	11/24/09 17:09	JGH	67-64-1	1
2-Butanone (MEK)	40	ug/L	20	8260B	11/24/09 17:09	JGH	78-93-3	1
Benzene	52	ug/L	1	8260B	11/24/09 17:09	JGH	71-43-2	1
Bromodichloromethane	53	ug/L	1	8260B	11/24/09 17:09	JGH	75-27-4	1
Bromoform	44	ug/L	1	8260B	11/24/09 17:09	JGH	75-25-2	1
Bromomethane	51	ug/L	2	8260B	11/24/09 17:09	JGH	74-83-9	1
Carbon disulfide	47	ug/L	5	8260B	11/24/09 17:09	JGH	75-15-0	1
Carbon tetrachloride	52	ug/L	1	8260B	11/24/09 17:09	JGH	56-23-5	1
Chlorobenzene	51	ug/L	1	8260B	11/24/09 17:09	JGH	108-90-7	1
Chloroethane	51	ug/L	1	8260B	11/24/09 17:09	JGH	75-00-3	1
Chloroform	52	ug/L	1	8260B	11/24/09 17:09	JGH	67-66-3	1
Chloromethane	48	ug/L	1	8260B	11/24/09 17:09	JGH	74-87-3	1
Cyclohexane	52	ug/L	1	8260B	11/24/09 17:09	JGH	110-82-7	1
1,1-Dichloroethane	57	ug/L	1	8260B	11/24/09 17:09	JGH	75-34-3	1
1,1-Dichloroethene	52	ug/L	1	8260B	11/24/09 17:09	JGH	75-35-4	1
1,2-Dibromo-3-chloropropane	52	ug/L	1	8260B	11/24/09 17:09	JGH	96-12-8	1
1,2-Dibromoethane	49	ug/L	1	8260B	11/24/09 17:09	JGH	106-93-4	1
1,2-Dichlorobenzene	50	ug/L	1	8260B	11/24/09 17:09	JGH	95-50-1	1
1,2-Dichloroethane	50	ug/L	1	8260B	11/24/09 17:09	JGH	107-06-2	1
1,2-Dichloropropane	53	ug/L	1	8260B	11/24/09 17:09	JGH	78-87-5	1
1,3-Dichlorobenzene	51	ug/L	1	8260B	11/24/09 17:09	JGH	541-73-1	1
1,4-Dichlorobenzene	49	ug/L	1	8260B	11/24/09 17:09	JGH	106-46-7	1
cis-1,2-Dichloroethene	56	ug/L	1	8260B	11/24/09 17:09	JGH	156-59-2	1
cis-1,3-Dichloropropene	54	ug/L	1	8260B	11/24/09 17:09	JGH	10061-01-5	1
Dibromochloromethane	45	ug/L	1	8260B	11/24/09 17:09	JGH	124-48-1	1
Dichlorodifluoromethane	44	ug/L	1	8260B	11/24/09 17:09	JGH	75-71-8	1
trans-1,2-Dichloroethene	53	ug/L	1	8260B	11/24/09 17:09	JGH	156-60-5	1
trans-1,3-Dichloropropene	53	ug/L	1	8260B	11/24/09 17:09	JGH	10061-02-6	1
Ethylbenzene	52	ug/L	1	8260B	11/24/09 17:09	JGH	100-41-4	1
2-Hexanone	Not detected	ug/L	50	8260B	11/24/09 17:09	JGH	591-78-6	1
Isopropylbenzene	50	ug/L	1	8260B	11/24/09 17:09	JGH	98-82-8	1
Methyl Acetate	50	ug/L	10	8260B	11/24/09 17:09	JGH	79-20-9	1
4-Methyl-2-pentanone (MIBK)	50	ug/L	10	8260B	11/24/09 17:09	JGH	108-10-1	1
tert-Methyl butyl ether (MTBE)	50	ug/L	5	8260B	11/24/09 17:09	JGH	1634-04-4	1
Methyl cyclohexane	50	ug/L	20	8260B	11/24/09 17:09	JGH	108-87-2	1
Methylene chloride	50	ug/L	5	8260B	11/24/09 17:09	JGH	75-09-2	1
Styrene	48	ug/L	1	8260B	11/24/09 17:09	JGH	100-42-5	1
1,1,1-Trichloroethane	52	ug/L	1	8260B	11/24/09 17:09	JGH	71-55-6	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	8260B	11/24/09 17:09	JGH	79-34-5	1
1,1,2-Trichloro-1,2,2-trifluoroethane	50	ug/L	30	8260B	11/24/09 17:09	JGH	76-13-1	1
1,1,2-Trichloroethane	50	ug/L	1	8260B	11/24/09 17:09	JGH	79-00-5	1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S42577.05 (continued)

Sample Tag: MW-03S MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
1,2,4-Trichlorobenzene	50	ug/L	2	8260B	11/24/09 17:09	JGH	120-82-1	1
Tetrachloroethene	50	ug/L	1	8260B	11/24/09 17:09	JGH	127-18-4	1
Toluene	53	ug/L	1	8260B	11/24/09 17:09	JGH	108-88-3	1
Trichloroethene	51	ug/L	1	8260B	11/24/09 17:09	JGH	79-01-6	1
Trichlorofluoromethane	53	ug/L	1	8260B	11/24/09 17:09	JGH	75-69-4	1
Vinyl chloride	54	ug/L	1	8260B	11/24/09 17:09	JGH	75-01-4	1
o-Xylene	53	ug/L	1	8260B	11/24/09 17:09	JGH	95-47-6	1
p,m-Xylene	104	ug/L	1	8260B	11/24/09 17:09	JGH		1

1-Spiked at 50ug/L.



Analytical Laboratory Report

Lab Sample ID: S42577.06
 Sample Tag: EQP-01
 Collected Date/Time: 11/13/2009 15:15
 Matrix: Groundwater
 COC Reference: 041336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	11/24/09 15:56	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	11/24/09 15:56	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	11/24/09 15:56	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	11/24/09 15:56	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	11/24/09 15:56	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	11/24/09 15:56	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	11/24/09 15:56	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/24/09 15:56	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	11/24/09 15:56	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	11/24/09 15:56	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	11/24/09 15:56	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	11/24/09 15:56	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S42577.06 (continued)

Sample Tag: EQP-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	11/24/09 15:56	JGH		



Analytical Laboratory Report

Lab Sample ID: S42577.07
 Sample Tag: DUP-01
 Collected Date/Time: 11/13/2009 :
 Matrix: Groundwater
 COC Reference: 041336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	11/24/09 16:14	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	11/24/09 16:14	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	11/24/09 16:14	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	11/24/09 16:14	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	11/24/09 16:14	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	11/24/09 16:14	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	11/24/09 16:14	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/24/09 16:14	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	11/24/09 16:14	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	11/24/09 16:14	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	11/24/09 16:14	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	11/24/09 16:14	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S42577.07 (continued)

Sample Tag: DUP-01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	11/24/09 16:14	JGH		



Analytical Laboratory Report

Lab Sample ID: S42577.08
 Sample Tag: Trip Blank
 Collected Date/Time: 11/11/2009 :
 Matrix: Groundwater
 COC Reference: 041336

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
TCL Volatile Organics 8260								
Acetone	Not detected	ug/L	20	8260B	11/24/09 16:33	JGH	67-64-1	
2-Butanone (MEK)	Not detected	ug/L	20	8260B	11/24/09 16:33	JGH	78-93-3	
Benzene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	71-43-2	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	75-27-4	
Bromoform	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	75-25-2	
Bromomethane	Not detected	ug/L	2	8260B	11/24/09 16:33	JGH	74-83-9	
Carbon disulfide	Not detected	ug/L	5	8260B	11/24/09 16:33	JGH	75-15-0	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	56-23-5	
Chlorobenzene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	108-90-7	
Chloroethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	75-00-3	
Chloroform	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	67-66-3	
Chloromethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	74-87-3	
Cyclohexane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	110-82-7	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	75-34-3	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	75-35-4	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	96-12-8	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	106-93-4	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	95-50-1	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	107-06-2	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	78-87-5	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	106-46-7	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	10061-01-5	
Dibromochloromethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	124-48-1	
Dichlorodifluoromethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	75-71-8	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	10061-02-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	100-41-4	
2-Hexanone	Not detected	ug/L	50	8260B	11/24/09 16:33	JGH	591-78-6	
Isopropylbenzene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	98-82-8	
Methyl Acetate	Not detected	ug/L	10	8260B	11/24/09 16:33	JGH	79-20-9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	10	8260B	11/24/09 16:33	JGH	108-10-1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/24/09 16:33	JGH	1634-04-4	
Methyl cyclohexane	Not detected	ug/L	20	8260B	11/24/09 16:33	JGH	108-87-2	
Methylene chloride	Not detected	ug/L	5	8260B	11/24/09 16:33	JGH	75-09-2	
Styrene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	100-42-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	71-55-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	79-34-5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Not detected	ug/L	30	8260B	11/24/09 16:33	JGH	76-13-1	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	79-00-5	
1,2,4-Trichlorobenzene	Not detected	ug/L	2	8260B	11/24/09 16:33	JGH	120-82-1	



Analytical Laboratory Report

Lab Sample ID: S42577.08 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
TCL Volatile Organics 8260 (continued)								
Tetrachloroethene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	127-18-4	
Toluene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	108-88-3	
Trichloroethene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	79-01-6	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	75-69-4	
Vinyl chloride	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	75-01-4	
o-Xylene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH	95-47-6	
p,m-Xylene	Not detected	ug/L	1	8260B	11/24/09 16:33	JGH		



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C.O.C. PAGE # 1 OF 1

041336

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: J. Alfonsi / M. Secret
 COMPANY: O'Brien & Gere
 ADDRESS: 37000 Grand River Ave Suite 200
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335
 PHONE NO. FAX NO. P.O. NO. COUNTRY NO.

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

PROJECT NO NAME: Linden Rd. 45035 SAMPLER(S), PLEASE PRINT SIGN NAME: Stephen Delaney SPECIAL INSTRUCTIONS/NOTES: VOCs
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

MERIT LAB NO	2009		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2O2	H2SO4	MCH	MCHK	OTHER	# Containers & Preservatives	
	DATE	TIME													
42577.01	11/3	1305	MW-145	GW	2		2								
.02	11/3	1355	MW-155	GW	2		2								
.03	11/3	1505	MW-035	GW	2		2								
.04/.05	11/3	1510	MW-033MS/MSD	GW	4		4								
.06	11/3	1515	EOP-01	GW	2		2								
.07	11/3		DUP-01	GW	2		2								
.08	11/11		Trip Blank	GW	1										

RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>11/17/09</u> TIME: <u>12:15</u>	RELINQUISHED BY: <u>[Signature]</u>	DATE: <u>11/17/09</u> TIME: <u>1335</u>
RECEIVED BY: <u>[Signature]</u>	DATE: <u>11-17-09</u> TIME: <u>1215</u>	RECEIVED BY: <u>[Signature]</u>	DATE: <u>11/17/09</u> TIME: <u>1335</u>
RELINQUISHED BY: _____	DATE: _____ TIME: _____	SEAL NO. _____	SEAL INTACT: YES/NO
RECEIVED BY: _____	DATE: _____ TIME: _____	SEAL NO. _____	SEAL INTACT: YES/NO

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