

January 23, 2015

**Mr. James E. Innes**

Michigan Department of Environmental Quality  
Remediation and Redevelopment Division  
Constitution Hall  
525 West Allegan Street  
Lansing, MI 48909

RE: Groundwater Sampling Report – Semiannual 2014  
RACER Trust Hemphill Road Industrial Land, Burton, Michigan  
FILE: 15388 / 51441

Dear Mr. Innes:

This letter serves as a Summary Report for the semiannual 2014 groundwater sampling events conducted in April and October 2014 at the Revitalizing Auto Communities Environmental Response Trust (RACER Trust) Hemphill Road Industrial Land (HRIL) facility located in Burton, Michigan (Site). Semiannual groundwater sampling was conducted to document groundwater quality for the Site in accordance with the MDEQ-approved Groundwater Investigation Work Plan, dated September 2010.

As documented in the Off-Site LNAPL Investigation Memorandum, submitted to the MDEQ on August 22, 2014, a groundwater sample from well OBG MW-4S was collected to assess groundwater quality below the LNAPL. The sample was analyzed for the presence of volatile organic compounds (VOCs) and total and dissolved lead based on the results of previous LNAPL analysis performed in 2011 that detected benzene, 1,4-dichlorobenzene and lead above MDEQ Part 201 Generic Residential and Nonresidential Drinking Water criteria.

## **GROUNDWATER SAMPLING**

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The semiannual 2014 groundwater sampling was performed utilizing the following sampling protocols:

Prior to sampling, water level measurements were collected from monitoring wells at the Site and the offsite wells. Monitoring well locations are shown on [Figure 1](#). Monitoring well construction details are listed on [Table 1](#) and groundwater elevation data is included on [Table 2](#). The groundwater elevations observed during the sampling events are within the historic range of static groundwater measurements for the Site. As reported in June 2011 Groundwater Investigation Report for the Site, based on the distance between wells and the Site geology, the geologic units observed at the Site do not appear continuous across the Site and do not appear to be connected. Therefore, as previously reported, the groundwater flow direction for the HRIL Site cannot be specifically determined based on groundwater elevations in the monitoring wells and discontinuous geology at the Site,

Groundwater elevations are depicted on [Figure 2](#) (April 2014) and [Figure 3](#) (October 2014).

Groundwater samples for the semiannual 2014 sampling events (April 24, 2014 and October 14, 2014) were collected as follows: the April 24, 2014 event samples were collected from the existing 9 monitoring wells: OBG MW-1S, OBG MW-2S, OBG MW-2D, OBG MW-3, OBG MW-5, OBG MW-6S, OBG MW-6D, OBG MW-7S and OBG MW-7D. A sample was not collected from wells MW-401 and MW-403 (installed by others) based on the screen lengths of these wells being over 10 ft in length. Also, groundwater samples were not collected during either event from OBG MW-4S based on the presence of Light Non-Aqueous Phase Liquid (LNAPL) in this well.

In addition to the existing wells sampled during the first semiannual sampling event and subsequent to the installation of the offsite monitoring wells in June 2014, the additional five offsite wells (OBG OS MW-1, OBG OS MW-2, OBG OS MW-3, OBG OS MW-4 and OBG OS MW-5) were sampled in October 2014 during the second semiannual groundwater sampling event.

Groundwater sampling was performed in accordance with MDEQ Operational Memorandum No.2-Attachment 5 for low-flow sampling. Low-flow groundwater sampling was performed using polyethylene sample tubing lowered approximately to the midpoint of the well screen and connected to a peristaltic pump. The tubing was then attached to a flow-through cell attached to a physical parameter measurement instrument capable of measuring temperature, conductivity, pH, dissolved oxygen (DO), and oxidation-reduction potential (ORP). Turbidity was also measured with a Hach® colorimeter. After the pump was turned on, the well was purged at a rate that produced less than 0.3 ft of drawdown in the well, confirmed by the measurement of water levels in the monitoring well during purging. These measurements of water quality (*i.e.*, physical parameters) were recorded on a groundwater sampling log. Purging continued until the water quality parameters stabilized (no more than 10% variation) over a 5-minute period. If turbidity readings did not stabilize below readings of 20 NTUs, a dissolved metals sample was collected from the well. Once stabilized, the pumping rate was reduced and the flow-through cell was disconnected. Samples were collected directly into laboratory supplied containers. The sample container selection and preservation techniques followed MDEQ Operational Memorandum No.2-Attachment 4. Groundwater sample logs are included in [Exhibit A](#).

The samples were labeled, packed on ice, and shipped via courier under routine chain-of-custody protocols to Merit Laboratories, Inc. (Merit) of East Lansing, Michigan. The groundwater samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260, and total metals (arsenic, barium, lead and zinc) by EPA Method 200.8. For the second semiannual sampling event selenium was also analyzed.

Quality Assurance/Quality Control (QA/QC) samples were collected in accordance with MDEQ Operational Memorandum No.2-Attachment 5. QA/QC samples included a blind duplicate, co-located sample; field blank and matrix spike/matrix spike duplicate (MS/MSD) set. One trip blank was submitted with each cooler shipment containing samples collected for VOC analyses.

## GROUNDWATER SAMPLING RESULTS

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### FIRST SEMIANNUAL SAMPLING EVENT- APRIL 2014

Analytical results for the first semiannual sampling event (April 2014) indicate VOCs were not detected above method detection limits except for low level detections of benzene (2 µg/l), chlorobenzene (1 µg/l) 1,4-dichlorobenzene (1 µg/l) and 1,2,3-trimethylbenzene (2 µg/l) detected at well OBG MW-5S. These concentrations are below the MDEQ Part 201 Generic Residential Drinking Water criteria. The analytical results for the first semiannual sampling event are summarized on [Table 3](#) and the groundwater analytical data sheets are included in [Exhibit B](#).

Analytical results for the first semiannual sampling event indicate concentrations of total metals: arsenic, barium, lead and zinc were below the MDEQ Part 201 Generic Residential Drinking Water criteria except for arsenic at OBG MW-2D (13 µg/l, the MDEQ Part 201 Generic Residential Drinking Water criteria for arsenic is 10 µg/l). During groundwater sampling, the turbidity readings for well OBG MW-5S did not stabilize below 20 NTUs; therefore, dissolved metals analysis were also requested for this sample in accordance with the MDEQ-approved September 2010 Groundwater investigation Work Plan. The results for dissolved analysis from OBG MW-5S were below the MDEQ Part 201 Generic Residential Drinking Water criteria.

## SECOND SEMIANNUAL SAMPLING EVENT- OCTOBER 2014

In addition to the nine onsite monitoring wells sampled, five additional offsite monitoring wells that were installed in June 2014 were also sampled during the second semiannual 2014 groundwater sampling event. Analytical results for this event indicate VOCs were detected below method detection limits for the wells sampled except in the following three wells: OBG MW-5S (onsite), OBG OS MW-4(offsite) and OBG OS MW-5(offsite). The VOCs detected at these wells were below the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criteria. The analytical results for the second semiannual sampling event are summarized on [Table 4](#) and the groundwater analytical data sheets are included in [Exhibit C](#).

Groundwater results for inorganic analysis indicate detections of selenium and zinc below method detection limits or MDEQ Part 201 Generic Residential Drinking Water criteria. Analytical results for arsenic, barium and lead are as follows:

- Monitoring wells with groundwater concentrations of total arsenic above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (10 µg/l) include: OBG MW-2S (34 µg/l), OBG MW-2D (42 µg/l), OBG MW-6S (15 µg/l), OBG MW- 6D (16 µg/l), OBG MW-7S (17 µg/l), OBG MW-7D (33 µg/l), OBG OS MW-1 (28 µg/l), and OBG OS MW-2 (64 µg/l). Monitoring well OBG MW-5S (14 µg/l) exhibited a detection of dissolved arsenic that was also above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion.
- Monitoring wells with groundwater concentrations of total lead above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (4 µg/l) include: OBG OS MW-1 (6 µg/l), OBG OS MW-2 (5 µg/l), OBG OS MW-3 (9 µg/l) and OBG OS MW-5 (21 µg/l).
- Offsite monitoring well OBG OS MW-5 exhibited a concentration of barium (2,160 µg/l) above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (2,000 µg/l).

## POTENTIAL SOURCE OF GROUNDWATER IMPACT

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As discussed on the October 29, 2014 call between MDEQ, RACER Trust and O'Brien & Gere, future activities associated with Site closure would be influenced by assessing the groundwater impact at the HRIL Site and whether the groundwater at the HRIL Site is the source of potentially impacted groundwater offsite at the adjacent properties. Based on the results of the groundwater samples collected during the October 2014 groundwater sampling event compared to the groundwater sample collected at the HRIL Site beneath the LNAPL, the offsite impacts identified do not appear to be emanating from the HRIL Site. However, continued groundwater monitoring is necessary to support this evaluation.

[Table 5](#) summarizes groundwater analytical results collected from onsite wells closest to the southeastern property boundary (OBG MW-4S and OBG MW-5S) and offsite wells (OBG OS MW-1, OBG OS MW-2, OBG OS MW-3, OBG OS MW-4 and OBG OS MW-5). Review of the analytical results included on [Table 5](#) indicates constituents detected in onsite monitoring well OBG MW-4S were not detected in either of the southern offsite wells OBG OS MW-1 or OBG OS MW-2. The table below summarizes the VOC compounds detected and concentrations in groundwater (note: groundwater results from samples collected at OBG OS MW-1, OBG OS MW-2 and OBG OS MW-3 are not shown on the table below based on no detections of VOCs above method detection limits).

Review of the groundwater analytical data summarized below indicates groundwater compound concentrations at offsite wells (OBG OS MW-4 and OBG OS MW-5) are mostly different than those detected at the HRIL Site. Furthermore, the higher concentrations of select compounds, specifically, naphthalene, 2-methylnaphthalene and chlorobenzene were detected in offsite wells and were not detected in onsite groundwater samples.

### VOC COMPOUNDS DETECTED IN GROUNDWATER

Compound Detected Date Sampled	OBG MW-4S 7/2/2014	OBG MW-5S 10/15/2014	OBG OS MW-4 10/16/2014	OBG OS MW-5 10/16/2014
Benzene	2	<1	<1	<1
Xylenes	3	<2	<2	<2
Isopropylbenzene	15	<5	<5	<5
n- Propylbenzene	18	<1	10	1
1,2,4- Trimethylbenzene	2	<1	6	<1
Sec- buytlbenzene	5	<1	<1	<1
Naphthalene	<5	<5	130	10
2- methylnaphthalene	<5	<5	40	6
1,4-Dicholorbenzene	<1	1	<1	3
Chlorobenzene	<1	<1	7	8

Notes: Results are shown in µg/l.

Sample from OBG MW-4S collected below LNAPL on 7/2/2014. Samples collected from other wells on 10/14/2014.

Review of groundwater elevations ([Figure 3](#)) at the southeast area of the HRIL Site and the offsite wells indicates groundwater observed in the waste fill material in this area may flow to the south.

Therefore, it is likely the impacted groundwater at the HRIL Site is not the source for groundwater impact offsite to the east.

### RECOMMENDATIONS

A seminannual groundwater sampling program is proposed for 2015. The groundwater sampling program will include collection of samples from the groundwater well network at the southeast area of the HRIL site (wells OBG MW-2D, OBG MW-2S, OBG MW-3, OBG MW-4S (if LNAPL not present), and OBG MW-5S) , as well as offsite wells (OBG OS MW-1, OBG OS MW-2, OBG OS MW-3, OBG OS MW-4, and OBG OS MW-5). Groundwater samples will be analyzed for VOCs by EPA Method 8260, and total metals (arsenic, barium, lead, and selenium) by EPA Method 200.8.

In proceeding with project closure and pending the groundwater monitoring results for the first groundwater sampling event in 2015, RACER Trust intends to prepare a Response Activity Plan (RAP) for the HRIL Site in 2015. The RAP is intended to address the following conditions at the HRIL Site: lead impacted shallow subsurface soil at the southern end of the property, VOCs and inorganics above MDEQ criterion in site-wide groundwater, and LNAPL observed at the southeastern portion of the HRIL Site.

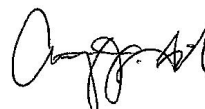
If you have questions or would like additional information, please contact David Favero at (914) 304-1672 or Tony Finch at (248) 477-5701 ext. 14.

Very truly yours,  
**O'BRIEN & GERE ENGINEERS, INC.**



Scott L. Cormier  
Vice President

Very truly yours,  
**O'BRIEN & GERE ENGINEERS, INC.**



Anthony J. Finch, CPG  
Senior Project Geologist

cc: David Favero- RACER Trust

## ATTACHMENTS:

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Table 1- Monitoring Well Construction Details

Table 2- Groundwater Elevation Data

Table 3- Groundwater Analytical Results- April 2014

Table 4- Groundwater Analytical Results- October 2014

Table 5- Groundwater Analytical Results for Wells at Eastern Property Boundary

Figure 1- Monitoring Well Locations

Figure 2- Groundwater Elevations – April 2014

Figure 3- Groundwater Elevations – October 2014

Exhibit A- Groundwater Sampling Logs – April 2014 & October 2014

Exhibit B- Groundwater Analytical Data April 2014

Exhibit C- Groundwater Analytical Data October 2014

*TABLES*

**Table 1**  
**Hemphill Road Industrial Land - Burton, Michigan**  
**Monitoring Well Construction Details**

Well	Completion Date	Installed By: Consultant/ Driller	Total Well Depth *	Surface Elevation (ft amsl)	Top of Casing Elevation (ft amsl)	Casing Diameter (inches)	Screened Interval Elevations	Estimated Sand/Gravel Pack Elevations
OBG MW-1S	29-Nov-10	O'Brien & Gere / Boart Longyear	27.20	774.9	777.64	2	755.44-750.44	757.44-749.44
OBG MW-2S	30-Nov-10	O'Brien & Gere / Boart Longyear	20.30	772.9	775.33	2	760.03-755.03	762.03-754.03
OBG MW-2D	30-Nov-10	O'Brien & Gere / Boart Longyear	38.50	772.8	775.19	2	741.69-736.69	743.69-735.69
OBG MW-3	30-Nov-10	O'Brien & Gere / Boart Longyear	27.70	774.3	777.31**	2	754.54-749.54	756.54-748.54
OBG MW-4S	30-Nov-10	O'Brien & Gere / Boart Longyear	27.70	766.3	769.15	2	746.45-741.45	748.45-740.45
OBG MW-5S	1-Dec-10	O'Brien & Gere / Boart Longyear	20.30	768.5	771.00	2	755.7-750.7	757.7-749.7
OBG MW-6S	1-Dec-10	O'Brien & Gere / Boart Longyear	19.10	769.7	772.70	2	758.6-753.6	760.6-752.6
OBG MW-6D	1-Dec-10	O'Brien & Gere / Boart Longyear	44.40	769.7	772.69	2	733.29-728.29	735.29-727.29
OBG MW-7S	2-Dec-10	O'Brien & Gere / Boart Longyear	17.70	763.6	766.30	2	753.6-748.6	755.6-747.6
OBG MW-7D	2-Dec-10	O'Brien & Gere / Boart Longyear	47.80	763.6	766.36	2	723.56-718.56	725.56-717.56
OBG OS MW-1	11-Nov-13	O'Brien & Gere / Cascade	30.15	774.1	776.57	2	756.42-746.42	754.42-745.42
OBG OS MW-2	11-Nov-13	O'Brien & Gere / Cascade	30.29	774.0	776.67	2	756.38-746.38	754.38-744.42
OBG OS MW-3	9-Jun-14	O'Brien & Gere / Cascade	30.29	779.8	782.89	2	762.59-752.59	764.59-751.59
OBG OS MW-4	9-Jun-14	O'Brien & Gere / Cascade	27.76	776.1	779.00	2	761.20-751.20	763.20-750.20
OBG OS MW-5	10-Jun-14	O'Brien & Gere / Cascade	28.15	776.4	779.38	2	761.18-751.18	763.18-750.18

Notes:

- 1) ft amsl - feet above mean sea level (NGVD 1929)
- 2) ft TOC - feet below Top of Casing
- 3) Wells are polyvinylchloride (PVC), schedule 40, screen slot size 0.010 inch.
- 4) \* - Total well depth as measured from TOC  
Elevation referenced to NGVD 1929
- 5) \*\* - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.

**Table 2**  
**Hemphill Road Industrial Land - Burton, Michigan**  
**Groundwater Elevation Data**

Well	Top of Casing Elevation (ft amsl)	Depth To Water 12/20/2010 (ft btoc)	Static Water Elevation 12/20/2010 (ft amsl)	Depth To Water 2/25/2011 (ft btoc)	Static Water Elevation 2/25/2011 (ft amsl)	Depth To Water 3/22/2012 (ft btoc)	Static Water Elevation 3/22/2012 (ft amsl)	Depth To Water 6/13/2012 (ft btoc)	Static Water Elevation 6/13/2012 (ft amsl)	Depth To Water 9/20/2012 (ft btoc)	Static Water Elevation 9/20/2012 (ft amsl)	Depth To Water 12/18/2012 (ft btoc)	Static Water Elevation 12/18/2012 (ft amsl)	Depth To Water 4/16/2013 (ft btoc)	Static Water Elevation 4/16/2013 (ft amsl)
OBG MW-1S	777.64	13.80	763.84	13.50	764.14	12.47	765.17	12.70	764.94	13.03	764.61	13.18	764.46	12.28	765.36
OBG MW-2S	775.33	11.59	763.74	11.02	764.31	10.41	764.92	10.45	764.88	10.26	765.07	11.03	764.30	9.76	765.57
OBG MW-2D	775.19	22.02	753.17	21.80	753.39	20.16	755.03	20.45	754.74	22.34	752.85	21.26	753.93	20.57	754.62
OBG MW-3 **	777.31	23.00	754.24	22.95	754.29	22.72	754.59	22.69	754.62	22.69	754.62	22.87	754.44	22.77	754.54
OBG MW-4S	769.15	--	--	--	--	14.30	754.85	14.55	754.60	14.52	754.63	14.6	754.57	14.35	754.80
OBG MW-5S	771.00	15.97	755.03	15.80	755.20	15.48	755.52	15.75	755.25	15.80	755.20	15.93	755.07	15.47	755.53
OBG MW-6S	772.70	14.72	757.98	14.18	758.52	13.81	758.89	14.31	758.39	14.84	757.86	14.62	758.08	12.42	760.28
OBG MW-6D	772.69	19.61	753.08	19.46	753.23	17.99	754.70	18.51	754.18	20.11	752.58	18.96	753.73	18.04	754.65
OBG MW-7S	766.30	8.68	757.62	8.10	758.20	8.12	758.18	8.36	757.94	8.59	757.71	8.37	757.93	7.26	759.04
OBG MW-7D	766.36	14.40	751.96	14.23	752.13	12.55	753.81	13.09	753.27	14.70	751.66	13.73	752.63	12.95	753.41
OBG OS MW-1	776.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-2	776.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-3	782.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-4	779.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG OS MW-5	779.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

- 1) ft amsl - feet above mean sea level (NGVD 1929).
- 2) ft btoc - feet below top of casing.
- 3) -- denotes depth to water not collected.
- 4) \*\* - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.  
The previous TOC was 777.24.

**Table 2**  
**Hemphill Road Industrial Land - Burton, Michigan**  
**Groundwater Elevation Data**

Well	Top of Casing Elevation (ft amsl)	Depth To Water 10/15/2013 (ft btoc)	Static Water Elevation 10/15/2013 (ft amsl)	Depth To Water 12/10/2013 (ft btoc)	Static Water Elevation 12/10/2013 (ft amsl)	Depth To Water 4/24/2014 (ft btoc)	Static Water Elevation 4/24/2014 (ft amsl)	Depth To Water 7/2/2014 (ft btoc)	Static Water Elevation 7/2/2014 (ft amsl)	Depth To Water 7/28/2014 (ft btoc)	Static Water Elevation 7/28/2014 (ft amsl)	Depth To Water 9/11/2014 (ft btoc)	Static Water Elevation 9/11/2014 (ft amsl)
OBG MW-1S	777.64	13.60	764.04	--	--	12.69	764.95	--	--	--	--	12.44	765.20
OBG MW-2S	775.33	11.48	763.85	--	--	10.32	765.01	--	--	--	--	10.29	765.04
OBG MW-2D	775.19	21.28	753.91	--	--	20.21	754.98	--	--	--	--	20.42	754.77
OBG MW-3 **	777.31	22.78	754.53	--	--	22.73	754.58	--	--	--	--	22.54	754.77
OBG MW-4S	769.15	--	--	--	--	--	--	--	--	--	--	14.6	754.58
OBG MW-5S	771.00	15.80	755.20	--	--	15.59	755.41	--	--	--	--	15.84	755.16
OBG MW-6S	772.70	14.94	757.76	--	--	13.79	758.91	--	--	--	--	14.49	758.21
OBG MW-6D	772.69	19.21	753.48	--	--	18.10	754.59	--	--	--	--	18.06	754.63
OBG MW-7S	766.30	8.85	757.45	--	--	7.81	758.49	--	--	--	--	8.37	757.93
OBG MW-7D	766.36	13.93	752.43	--	--	12.64	753.72	--	--	--	--	12.91	753.45
OBG OS MW-1	776.57	--	--	22.10	754.47	--	--	--	--	--	--	22.17	754.40
OBG OS MW-2	776.67	--	--	21.43	755.24	--	--	--	--	--	--	21.58	755.09
OBG OS MW-3	782.89	--	--	--	--	--	--	25.39	757.50	25.52	757.37	25.89	757.00
OBG OS MW-4	779.00	--	--	--	--	--	--	24.29	754.71	24.34	754.66	24.48	754.52
OBG OS MW-5	779.38	--	--	--	--	--	--	24.71	754.67	24.79	754.59	24.91	754.47

- Notes:
- 1) ft amsl - feet above mean sea level (NGVD 1929).
  - 2) ft btoc - feet below top of casing.
  - 3) --' denotes depth to water not collected.
  - 4) \*\* - OBG MW-3 was repaired, and the TOC resurveyed, on 9/2/2011.  
The previous TOC was 777.24.

**Table 3**  
**Hemphill Road Industrial Land- Burton, Michigan**  
**Groundwater Analytical Results- April 2014**

Monitoring Well Sample Date	MDEQ Part 201 Generic Criteria										
	OBG MW-1S 4/24/2014	OBG MW-2S 4/24/2014	OBG MW-2D 4/24/2014	OBG MW-3 4/24/2014	OBG MW-5S <sup>2</sup> 4/24/2014	OBG MW-6S 4/24/2014	OBG MW-6D 4/24/2014	OBG MW-7S 4/24/2014	OBG MW-7D 4/24/2014	Residential Drinking Water	Non-Residential Drinking Water
Arsenic	<2	4	13	4	<2	4	4	7	8	10 (A)	10 (A)
Barium	119	160	258	79	930	161	78	80	81	2,000 (A)	2,000 (A)
Lead	<3	4	4	<3	3	<3	<3	<3	<3	4.0 (L)	4.0 (L)
Zinc	<5	<5	<5	<5	118	<5	<5	17	18	2,400	5,000 (E)
Diethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	10 (E)	10 (E)
Acetone	<50	<50	<50	<50	<50	<50	<50	<50	<50	730	2,100
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	800	2,300
tert-Methyl butyl ether (MTBE)	<5	<5	<5	<5	<5	<5	<5	<5	<5	40 (E)	40 (E)
Acrylonitrile	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.6	11
2-Butanone (MEK)	<25	<25	<25	<25	<25	<25	<25	<25	<25	13,000	38,000
Dichlorodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,700	4,800
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	260	1,100
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0 (A)	2.0 (A)
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	29
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	430	1700
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	2,600	7,300
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	7 (A)	7 (A)
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	5 (A)	5 (A)
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	100 (A)	100 (A)
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	880	2,500
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	70 (A)	70 (A)
Tetrahydrofuran	<90	<90	<90	<90	<90	<90	<90	<90	<90	95	270
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	200 (A)	200 (A)
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,800	5,200
2-Hexanone	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,000	2,900
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
Benzene	<1	<1	<1	<1	2	<1	<1	<1	<1	5 (A)	5 (A)
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	80	230
cis-1,3-Dichloropropene <sup>3</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	790 (E)	790 (E)
trans-1,3-Dichloropropene <sup>3</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 (A)	5.0 (A)
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 (A)	5.0 (A)
trans-1,4-Dichloro-2-butene	<1	<1	<1	<1	<1	<1	<1	<1	<1	na	na
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	80 (A,W)	80 (A,W)
1,2-Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.05 (A)	0.05 (A)
Chlorobenzene	<1	<1	<1	<1	1	<1	<1	<1	<1	100 (A)	100 (A)
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	77	320
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	74 (E)	74 (E)
p,m-Xylene <sup>4</sup>	<2	<2	<2	<2	<2	<2	<2	<2	<2	280 (E)	280 (E)
o-Xylene <sup>4</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	280 (E)	280 (E)

See notes on page 2.

**Table 3**  
**Hemphill Road Industrial Land- Burton, Michigan**  
**Groundwater Analytical Results- April 2014**

Monitoring Well Sample Date											MDEQ Part 201 Generic Criteria	
	OBG MW-1S 4/24/2014	OBG MW-2S 4/24/2014	OBG MW-2D 4/24/2014	OBG MW-3 4/24/2014	OBG MW-5S <sup>2</sup> 4/24/2014	OBG MW-6S 4/24/2014	OBG MW-6D 4/24/2014	OBG MW-7S 4/24/2014	OBG MW-7D 4/24/2014	Residential Drinking Water	Non-Residential Drinking Water	
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100 (A)	100 (A)
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	800	2,300
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	42	120
n-Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	18	50
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	72 (E)	72 (E)
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	63 (E)	63 (E)
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6.6	19
1,4-Dichlorobenzene	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	75 (A)	75 (A)
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	600 (A)	600 (A)
1,2,3-Trimethylbenzene	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	NA	NA
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230
Hexachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.3	21
1,2-Dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.2 (A)	0.2 (A)
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	70 (A)	70 (A)
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA
Naphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	520	1500
2-Methylnaphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	260	750

Notes:

- Units are ug/L.
- Metals analysis for OS-MW5S is for dissolved metals.
- Criteria are for total 1,3-Dichloropropene, values for cis and trans should be summed and compared against the appropriate criterion.
- Criteria are for total xylenes, values for p,m- and o- should be summed and compared against the appropriate criterion.
- Bolded and highlighted value denotes an analytical value that exceeds criteria or a criterion that has been exceeded.
- (A) - Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (E) - Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).
- (L) - Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA.
- (W) - Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 ug/L.
- 'na' - means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

**Table 4**  
**Hemphill Road Industrial Land- Burton, Michigan**  
**Groundwater Analytical Results- October 2014**

Monitoring Well Sample Date																MDEQ Part 201 Generic Criteria	
	OBG MW-1S 10/14/2014	OBG MW-2S 10/14/2014	OBG MW-2D 10/14/2014	OBG MW-3S 10/16/2014	OBG MW-5S <sup>2</sup> 10/15/2014	OBG MW-6S 10/16/2014	OBG MW-6D 10/15/2014	OBG MW-7S 10/14/2014	OBG MW-7D 10/14/2014	OBG OS MW-1 10/16/2014	OBG OS MW-2 10/16/2014	OBG OS MW-3 10/16/2014	OBG OS MW-4 10/16/2014	OBG OS MW-5 10/16/2014	Residential Drinking Water	Non-Residential Drinking Water	
Arsenic	4	34	42	5	14	15	16	17	33	28	64	8	3	2	10 (A)	10 (A)	
Barium	147	175	313	159	1,420	197	80	252	96	899	283	774	1,340	2,160	2,000 (A)	2,000 (A)	
Lead	<3	<3	<3	<3	<3	<3	<3	<3	<3	6	5	9	<3	21	4.0 (L)	4.0 (L)	
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	50 (A)	50 (A)	
Zinc	52	56	8	<5	30	6	11	70	6	8	32	8	<5	14	2,400	5,000 (E)	
Diethyl ether	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10 (E)	10 (E)	
Acetone	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	730	2,100	
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	800	2,300	
tert-Methyl butyl ether (MTBE)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	40 (E)	40 (E)	
Acrylonitrile	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	2.6	11	
2-Butanone (MEK)	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	13,000	38,000	
Dichlorodifluoromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	1,700	4,800	
Chloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	260	1,100	
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.0 (A)	2.0 (A)	
Bromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	10	29	
Chloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	430	1700	
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2,600	7,300	
1,1-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7 (A)	7 (A)	
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	5 (A)	5 (A)	
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100 (A)	100 (A)	
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	880	2,500	
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	70 (A)	70 (A)	
Tetrahydrofuran	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	95	270	
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	200 (A)	200 (A)	
4-Methyl-2-pentanone (MIBK)	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,800	5,200	
2-Hexanone	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	1,000	2,900	
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5 (A)	5 (A)	
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)	
Dibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	80	230	
cis-1,3-Dichloropropene <sup>3</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35	
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	790 (E)	790 (E)	
trans-1,3-Dichloropropene <sup>3</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35	
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 (A)	5.0 (A)	
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	5.0 (A)	5.0 (A)	
trans-1,4-Dichloro-2-butene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	na	na	
Dibromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	80 (A,W)	80 (A,W)	
1,2-Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.05 (A)	0.05 (A)	
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7	8	100 (A)	100 (A)	
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	77	320	
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	74 (E)	74 (E)	
p,m-Xylene <sup>4</sup>	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	280 (E)	280 (E)	
o-Xylene <sup>4</sup>	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	280 (E)	280 (E)	
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	100 (A)	100 (A)	
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	800	2,300	
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80 (A,W)	80 (A,W)	
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	8.5	35	
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	42	120	
n-Propylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	10	1	80	230	
Bromobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	18	50	
1,3,5-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	72 (E)	72 (E)	
tert-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230	
1,2,4-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6	<1	63 (E)	63 (E)	
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230	
p-Isopropyltoluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	
1,3-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	6.6	19	
1,4-Dichlorobenzene	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	3	75 (A)	75 (A)	
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	600 (A)	600 (A)	
1,2,3-Trimethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	NA	NA	
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	80	230	
Hexachloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	7.3	21	
1,2-Dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0.2 (A)	0.2 (A)	
1,2,4-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	70 (A)	70 (A)	
1,2,3-Trichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	NA	
Naphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	130	10	520	1500	
2-Methylnaphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	40	6	260	750	

See notes on Table 3.

**Table 5**  
**Hemphill Road Industrial Land- Burton, Michigan**  
**Groundwater Analytical Results for Wells at Eastern Property Boundary**

Monitoring Well Sample Date	Onsite Monitoring Wells		Offsite Monitoring Wells				
	OBG MW-4S 7/2/2014	OBG MW-5S 10/15/2014	OBG OS MW-1 10/16/2014	OBG OS MW-2 10/16/2014	OBG OS MW-3 10/16/2014	OBG OS MW-4 10/16/2014	OBG OS MW-5 10/16/2014
Arsenic <sup>2</sup>	not analyzed	14	28	64	8	3	2
Barium <sup>2</sup>	not analyzed	1,420	899	283	774	1,340	2,160
Lead <sup>2</sup>	10	< 3	6	5	9	< 3	21
Selenium <sup>2</sup>	not analyzed	< 5	< 5	< 5	< 5	< 5	< 5
Zinc <sup>2</sup>	not analyzed	30	8	32	8	< 5	14
Diethyl ether	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Methyl iodide	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 5
tert-Methyl butyl ether (MTBE)	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acrylonitrile	< 2	< 2	< 2	< 2	< 2	< 2	< 2
2-Butanone (MEK)	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Dichlorodifluoromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichlorofluoromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrahydrofuran	< 90	< 90	< 90	< 90	< 90	< 90	< 90
Chloroform	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
4-Methyl-2-pentanone (MIBK)	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon tetrachloride	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Benzene	2	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
trans-1,4-Dichloro-2-butene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromomethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	< 1	< 1	< 1	< 1	< 1	7	8
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p,m-Xylene	3	< 2	< 2	< 2	< 2	< 2	< 2
o-Xylene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	15	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Propylbenzene	18	< 1	< 1	< 1	< 1	10	1
Bromobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	2	< 1	< 1	< 1	< 1	6	< 1
sec-Butylbenzene	5	< 1	< 1	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	1	< 1	< 1	< 1	< 1	3
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trimethylbenzene	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	6	< 1	< 1	< 1	< 1	< 1	< 1
Hexachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2,3-Trichlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Naphthalene	< 5	< 5	< 5	< 5	< 5	130	10
2-Methylnaphthalene	< 5	< 5	< 5	< 5	< 5	40	6

Notes:  
1 Units are ug/L.  
2 Metals analysis is for total metals with the exception of OBG MW-5S which is for dissolved metals.

***FIGURES***






I:\Racer-Trust\_15388\51441\_2014-Hemphill-RD\docs\DWG\3\AMXD\006 - Figure 1 - Well Locations.mxd

PLOTDATE: 12/05/14 11:41

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

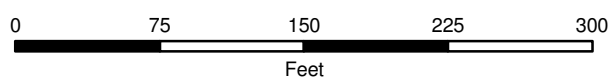
This document was developed in color. Reproduction in B/W may not represent the data as intended.

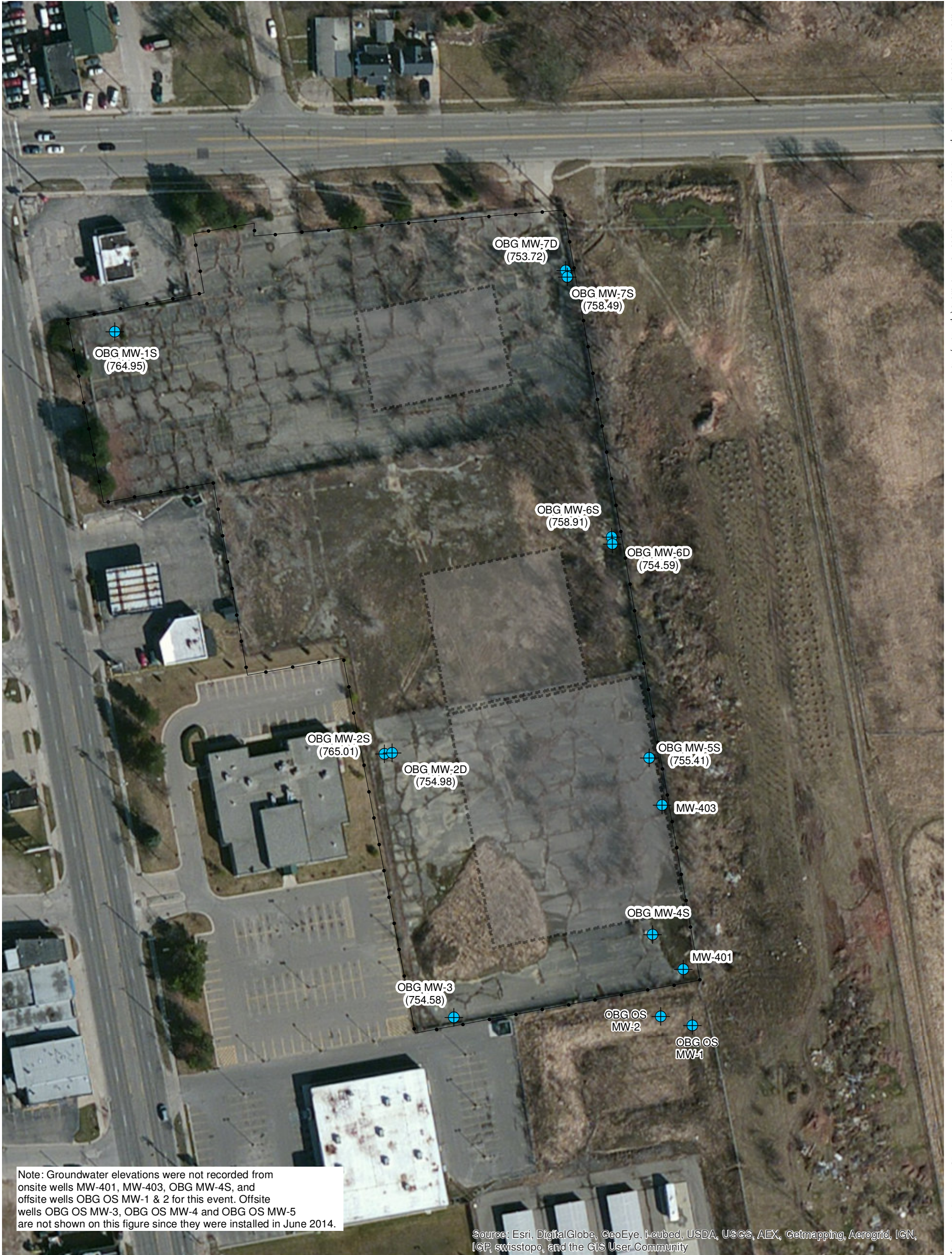
**KEY**

-  MONITORING WELL LOCATION
-  FENCE LINE
-  HEMPHILL ROAD INDUSTRIAL LAND

RACER TRUST  
HEMPHILL ROAD INDUSTRIAL LAND  
BURTON, MICHIGAN

**MONITORING  
WELL LOCATIONS**







I:\Racer-Trust\_15388\51441\_2014-Hemphill-RD\docs\DWG\3\AMXD\009 - GW Elevations (April 2014).mxd

PLOTDATE: 12/11/14 11:41

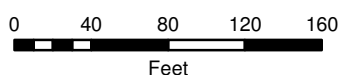
This document was developed in color. Reproduction in B/W may not represent the data as intended.

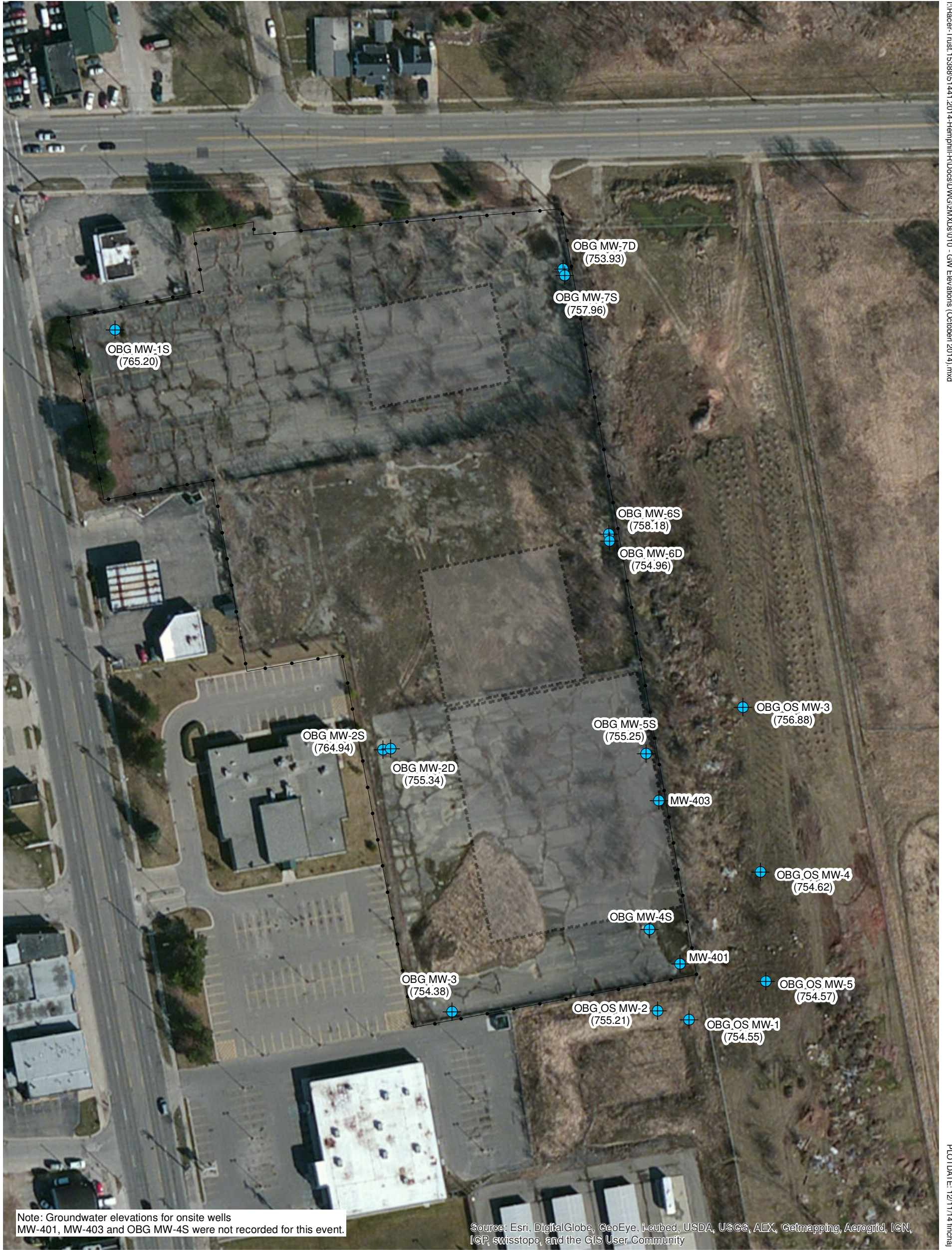
**LEGEND**

-  MONITORING WELL  
(GROUNDWATER ELEVATION IN FEET)
-  FORMER BUILDING

RACER TRUST  
HEMPHILL ROAD INDUSTRIAL LAND  
BURTON, MICHIGAN

**GROUNDWATER ELEVATIONS  
APRIL 2014**





I:\Racer-Trust\_15388\51441\_2014-Hemphill-RD\docs\DWG\3\MXD\010 - GW Elevations (October 2014).mxd

PLOTDATE: 12/11/14 11:41

Note: Groundwater elevations for onsite wells MW-401, MW-403 and OBG MW-4S were not recorded for this event.

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



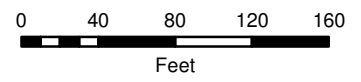
This document was developed in color. Reproduction in B/W may not represent the data as intended.

- LEGEND**
-  MONITORING WELL  
(GROUNDWATER ELEVATION IN FEET)
  -  FORMER BUILDING

RACER TRUST  
HEMPHILL ROAD INDUSTRIAL LAND  
BURTON, MICHIGAN

GROUNDWATER ELEVATIONS  
OCTOBER 2014

N

***EXHIBITS***

*Exhibit A*

*Groundwater Sampling Logs  
April 2014 & October 2014*

**O'Brien & Gere Engineers, Inc.**

**Standard Ground Water Sampling Log**

Date 4/24/14  
 Site Name HRIL  
 Location Burton, MI  
 Project No. 5141  
 Personnel ASF

Weather Overcast ~50°F  
 Well # ORG MW-7D  
 Evacuation Method Sub pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 47.7 ft.  
 Depth to Water \* 12.64 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:	
X	2" Diameter Well = 0.163 X LWC
	4" Diameter Well = 0.653 X LWC
	6" Diameter Well = 1.469 X LWC

Volume removed before sampling 3 gal.(s)  
 Did well go dry? No

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

pH Buffer Readings  
 4.0 Standard ✓  
 7.0 Standard ✓  
 10.0 Standard ✓

Conductivity Standard Readings  
 84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

**Water parameters:**

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>17.64</u>	initial <u>11.56</u>	initial <u>412</u>	initial <u>5.31</u>	initial <u>7.79</u>	initial <u>-46.0</u>	initial <u>612</u>
5 min	<u>12.65</u>	<u>11.71</u>	<u>427</u>	<u>0.61</u>	<u>7.82</u>	<u>-50.0</u>	<u>490</u>
10 min	<u>12.64</u>	<u>11.80</u>	<u>429</u>	<u>0.47</u>	<u>7.91</u>	<u>-52.1</u>	<u>320</u>
15 min	<u>12.66</u>	<u>11.99</u>	<u>431</u>	<u>0.39</u>	<u>7.87</u>	<u>-54.4</u>	<u>241</u>
20 min	<u>12.65</u>	<u>12.20</u>	<u>429</u>	<u>0.22</u>	<u>7.89</u>	<u>-53.1</u>	<u>120</u>
25 min	<u>12.64</u>	<u>12.31</u>	<u>430</u>	<u>0.19</u>	<u>7.90</u>	<u>-54.0</u>	<u>111</u>
30 min	<u>12.65</u>	<u>12.39</u>	<u>431</u>	<u>0.19</u>	<u>7.90</u>	<u>-53.1</u>	<u>59</u>
35 min	<u>12.65</u>	<u>12.40</u>	<u>433</u>	<u>0.19</u>	<u>7.90</u>	<u>-52.7</u>	<u>49</u>
40 min	<u>12.65</u>	<u>12.39</u>	<u>433</u>	<u>0.17</u>	<u>7.89</u>	<u>-52.1</u>	<u>32</u>
45 min	<u>12.65</u>	<u>12.41</u>	<u>433</u>	<u>0.18</u>	<u>7.90</u>	<u>-49.9</u>	<u>21</u>

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

**Water Sample:**

Time Collected 1400

**Physical Appearance at Start**

Color cloudy  
 Odor none  
 Turbidity (> 100 NTU) MOD  
 Sheen/Free Product NO

**Physical Appearance at Sampling**

Color clear  
 Odor None  
 Turbidity (> 100 NTU) low  
 Sheen/Free Product no

**Samples collected:**

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 4/24/14  
 Site Name HRC Weather overcast ~50°  
 Location Burton, MI Well # ORG MW-7S  
 Project No. 51441 Evacuation Method P. pump  
 Personnel ASFINUA Sampling Method Low-flow

Well Information:

Depth of Well \* 17.80 ft.  
 Depth to Water \* 7.81 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 2 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

pH Buffer Readings  
 4.0 Standard \_\_\_\_\_  
 7.0 Standard \_\_\_\_\_  
 10.0 Standard \_\_\_\_\_

Conductivity Standard Readings  
 84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

Water parameters:

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>7.81</u>	initial <u>9.45</u>	initial <u>904</u>	initial <u>1.60</u>	initial <u>6.91</u>	initial <u>-22.6</u>	initial <u>758</u>
5 min	<u>8.79</u>	<u>9.51</u>	<u>901</u>	<u>1.30</u>	<u>6.89</u>	<u>-25.1</u>	<u>526</u>
10 min	<u>8.99</u>	<u>9.53</u>	<u>896</u>	<u>0.92</u>	<u>6.89</u>	<u>-24.7</u>	<u>501</u>
15 min	<u>9.42</u>	<u>9.47</u>	<u>892</u>	<u>0.67</u>	<u>6.87</u>	<u>-18.7</u>	<u>424</u>
20 min	<u>9.91</u>	<u>9.44</u>	<u>893</u>	<u>0.51</u>	<u>6.87</u>	<u>-17.4</u>	<u>290</u>
25 min	<u>10.66</u>	<u>9.49</u>	<u>898</u>	<u>0.52</u>	<u>6.88</u>	<u>-13.1</u>	<u>131</u>
30 min	<u>11.69</u>	<u>9.68</u>	<u>901</u>	<u>0.41</u>	<u>6.87</u>	<u>-9.6</u>	<u>70</u>
35 min	<u>11.91</u>	<u>9.87</u>	<u>900</u>	<u>0.38</u>	<u>6.87</u>	<u>-6.2</u>	<u>41</u>
40 min	<u>12.41</u>	<u>9.97</u>	<u>903</u>	<u>0.39</u>	<u>6.89</u>	<u>-6.0</u>	<u>15</u>
45 min	<u>12.44</u>	<u>10.06</u>	<u>902</u>	<u>0.37</u>	<u>6.87</u>	<u>-6.0</u>	<u>9</u>

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

Water Sample:

Time Collected 1300

Physical Appearance at Start

Color MOD. cloudy  
 Odor none  
 Turbidity (> 100 NTU) MOD. - HIGH  
 Sheen/Free Product \_\_\_\_\_

Physical Appearance at Sampling

Color clear  
 Odor none  
 Turbidity (> 100 NTU) Low  
 Sheen/Free Product \_\_\_\_\_

Samples collected:

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH
<u>VOCs</u>	<u>40ml glass</u>	<u>3</u>			<u>HCL</u>	
<u>metals</u>	<u>125ml poly</u>	<u>1</u>			<u>HNO3</u>	

Notes:

BACTERIA (none) ASSVD in WATER

Date 4/24/14  
 Site Name HRIL Weather overcast ~50°  
 Location BURTON, MI Well # OBG MW-3  
 Project No. 5441 Evacuation Method PUMP  
 Personnel AJT Sampling Method Low-flow

**Well Information:**

Depth of Well \* 30.30 ft.  
 Depth to Water \* 22.73 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 3 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

pH Buffer Readings  4.0 Standard ✓  
 7.0 Standard ✓  
 10.0 Standard ✓

Conductivity Standard Readings  84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

**Water parameters:**

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>22.73</u>	initial <u>12.49</u>	initial <u>2180</u>	initial <u>2.30</u>	initial <u>7.40</u>	initial <u>8.1</u>	initial <u>201</u>
5 min	<u>22.75</u>	<u>12.52</u>	<u>2120</u>	<u>0.60</u>	<u>7.29</u>	<u>-12.1</u>	<u>101</u>
10 min	<u>22.72</u>	<u>12.60</u>	<u>2139</u>	<u>0.49</u>	<u>7.19</u>	<u>-4.9</u>	<u>41</u>
15 min	<u>22.73</u>	<u>12.62</u>	<u>2144</u>	<u>0.45</u>	<u>7.17</u>	<u>1.5</u>	<u>21</u>
20 min	<u>22.73</u>	<u>12.64</u>	<u>2156</u>	<u>0.41</u>	<u>7.15</u>	<u>5.0</u>	<u>12</u>
25 min	<u>22.74</u>	<u>12.71</u>	<u>2155</u>	<u>0.30</u>	<u>7.16</u>	<u>5.4</u>	<u>10</u>
30 min	<u>22.75</u>	<u>12.70</u>	<u>2160</u>	<u>0.23</u>	<u>7.15</u>	<u>6.1</u>	<u>11</u>
35 min	<u>22.75</u>	<u>12.71</u>	_____	_____	_____	_____	_____
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

**Water Sample:**

Time Collected 0800

**Physical Appearance at Start**

Color MOD. cloudy  
 Odor None  
 Turbidity (> 100 NTU) MOD  
 Sheen/Free Product no

**Physical Appearance at Sampling**

Color clear  
 Odor None  
 Turbidity (> 100 NTU) low  
 Sheen/Free Product NO

**Samples collected:**

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH

**Notes:**

Date 4/23/14  
 Site Name HRLC  
 Location Burton, MI  
 Project No. 51441  
 Personnel ASF

Weather overcast ~50°  
 Well # OBG MW-2D  
 Evacuation Method Pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 38.40 ft.  
 Depth to Water \* 20.21 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 2.5 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

pH Buffer Readings

4.0 Standard ✓  
 7.0 Standard ✓  
 10.0 Standard ✓

Conductivity Standard Readings

84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

**Water parameters:**

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>20.21</u>	initial <u>9.64</u>	initial <u>1701</u>	initial <u>1.49</u>	initial <u>6.29</u>	initial <u>165.1</u>	initial <u>106</u>
5 min	<u>20.40</u>	<u>9.72</u>	<u>1719</u>	<u>1.39</u>	<u>6.32</u>	<u>70.7</u>	<u>91</u>
10 min	<u>20.42</u>	<u>9.49</u>	<u>1727</u>	<u>1.01</u>	<u>6.35</u>	<u>62.3</u>	<u>77</u>
15 min	<u>20.40</u>	<u>9.74</u>	<u>1739</u>	<u>1.00</u>	<u>6.37</u>	<u>50.1</u>	<u>54</u>
20 min	<u>20.41</u>	<u>9.82</u>	<u>1741</u>	<u>0.91</u>	<u>6.38</u>	<u>42.9</u>	<u>42</u>
25 min	<u>20.45</u>	<u>9.91</u>	<u>1740</u>	<u>0.81</u>	<u>6.37</u>	<u>39.7</u>	<u>36</u>
30 min	<u>20.51</u>	<u>10.02</u>	<u>1721</u>	<u>0.78</u>	<u>6.39</u>	<u>21.1</u>	<u>22</u>
35 min	<u>20.53</u>	<u>10.00</u>	<u>1729</u>	<u>0.71</u>	<u>6.40</u>	<u>12.8</u>	<u>13</u>
40 min	<u>20.51</u>	<u>10.01</u>	<u>1728</u>	<u>0.69</u>	<u>6.39</u>	<u>11.6</u>	<u>14</u>
45 min	<u>20.50</u>	<u>10.01</u>	<u>1731</u>	<u>0.61</u>	<u>6.41</u>	<u>10.9</u>	<u>12</u>

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

**Water Sample:**

Time Collected 0900

Physical Appearance at Start

Color slt cloudy  
 Odor none  
 Turbidity (> 100 NTU) MOD  
 Sheen/Free Product NO

Physical Appearance at Sampling

Color clear  
 Odor none  
 Turbidity (> 100 NTU) LOW  
 Sheen/Free Product NO

**Samples collected:**

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 4/24/14  
 Site Name ARL  
 Location BURTON, MI  
 Project No. 51441  
 Personnel ASF

Weather Overcast 150°  
 Well # ORB MW-25  
 Evacuation Method PUMP  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 70.33 ft.  
 Depth to Water \* 10.32 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 2 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

pH Buffer Readings  
 4.0 Standard   
 7.0 Standard   
 10.0 Standard

Conductivity Standard Readings  
 84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

Water parameters:

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>10.32</u>	initial <u>9.61</u>	initial <u>1710</u>	initial <u>1.49</u>	initial <u>6.30</u>	initial <u>125.0</u>	initial <u>110</u>
5 min	<u>10.71</u>	<u>9.39</u>	<u>1721</u>	<u>1.31</u>	<u>6.36</u>	<u>61.3</u>	<u>80</u>
10 min	<u>10.93</u>	<u>9.69</u>	<u>1725</u>	<u>1.21</u>	<u>6.41</u>	<u>50.0</u>	<u>50</u>
15 min	<u>11.19</u>	<u>9.72</u>	<u>1729</u>	<u>0.90</u>	<u>6.44</u>	<u>41.3</u>	<u>47</u>
20 min	<u>11.41</u>	<u>9.89</u>	<u>1730</u>	<u>0.92</u>	<u>6.46</u>	<u>31.2</u>	<u>40</u>
25 min	<u>11.63</u>	<u>9.97</u>	<u>1731</u>	<u>0.88</u>	<u>6.44</u>	<u>24.16</u>	<u>31</u>
30 min	<u>11.89</u>	<u>10.14</u>	<u>1733</u>	<u>0.73</u>	<u>6.45</u>	<u>17.7</u>	<u>24</u>
35 min	<u>12.20</u>	<u>10.10</u>	<u>1740</u>	<u>0.63</u>	<u>6.49</u>	<u>12.1</u>	<u>19</u>
40 min	<u>12.31</u>	<u>10.09</u>	<u>1747</u>	<u>0.61</u>	<u>6.48</u>	<u>12.4</u>	<u>18</u>
45 min	<u>12.41</u>	<u>10.11</u>	<u>1749</u>	<u>0.59</u>	<u>6.49</u>	<u>11.0</u>	<u>16</u>

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

Water Sample:

Time Collected 0820

Physical Appearance at Start

Color slt cloudy  
 Odor none  
 Turbidity (> 100 NTU) Med  
 Sheen/Free Product no

Physical Appearance at Sampling

Color clear  
 Odor None  
 Turbidity (> 100 NTU) low  
 Sheen/Free Product no

Samples collected:

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 4/24/14  
 Site Name HRIC  
 Location BURTON, ME  
 Project No. 51441  
 Personnel ASF  
 Weather overcast 2500  
 Well # OR6 MW-15  
 Evacuation Method Sub pump  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 27.19 ft.  
 Depth to Water \* 12.69 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)  
 Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC  
 Volume removed before sampling 3 gal.(s)  
 Did well go dry? No  
 \* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

pH Buffer Readings  
 4.0 Standard   
 7.0 Standard   
 10.0 Standard   
 Conductivity Standard Readings  
 84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

Water parameters:

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>12.69</u>	initial <u>11.11</u>	initial <u>939</u>	initial <u>6.59</u>	initial <u>7.61</u>	initial <u>51.1</u>	initial <u>61</u>
5 min	<u>12.90</u>	<u>11.09</u>	<u>937</u>	<u>4.20</u>	<u>7.61</u>	<u>53.2</u>	<u>42</u>
10 min	<u>12.99</u>	<u>11.01</u>	<u>937</u>	<u>3.91</u>	<u>7.62</u>	<u>52.1</u>	<u>39</u>
15 min	<u>13.21</u>	<u>10.91</u>	<u>940</u>	<u>3.49</u>	<u>7.60</u>	<u>52.3</u>	<u>37</u>
20 min	<u>13.46</u>	<u>10.99</u>	<u>941</u>	<u>3.30</u>	<u>7.59</u>	<u>51.7</u>	<u>21</u>
25 min	<u>13.69</u>	<u>11.17</u>	<u>941</u>	<u>3.21</u>	<u>7.58</u>	<u>51.9</u>	<u>17</u>
30 min	<u>13.84</u>	<u>11.23</u>	<u>948</u>	<u>3.09</u>	<u>7.59</u>	<u>49.9</u>	<u>12</u>
35 min	<u>14.00</u>	<u>11.24</u>	<u>942</u>	<u>3.01</u>	<u>7.60</u>	<u>51.1</u>	<u>10</u>
40 min	<u>14.06</u>	<u>11.25</u>	<u>941</u>	<u>2.91</u>	<u>7.59</u>	<u>47.7</u>	<u>10</u>
45 min	_____	_____	_____	_____	_____	_____	_____

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

Water Sample:

Time Collected 0920

Physical Appearance at Start

Color slt cloudy  
 Odor none  
 Turbidity (> 100 NTU) MOD  
 Sheen/Free Product no

Physical Appearance at Sampling

Color clear  
 Odor none  
 Turbidity (> 100 NTU) LOW  
 Sheen/Free Product no

Samples collected:

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH

Notes:

Collected sample collected HERE

Date 7/24/14  
 Site Name HILL  
 Location BURTON, MI  
 Project No. 5441  
 Personnel AJF

Weather Clear w/ 250°F  
 Well # ORG MW-5  
 Evacuation Method S. pump  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 20.26 ft.  
 Depth to Water \* 15.59 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:	
X	2" Diameter Well = 0.163 X LWC
	4" Diameter Well = 0.653 X LWC
	6" Diameter Well = 1.469 X LWC

Volume removed before sampling ~2 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	<input checked="" type="checkbox"/>	84 S Standard	_____
7.0 Standard	<input checked="" type="checkbox"/>	1413 S Standard	_____
10.0 Standard	<input checked="" type="checkbox"/>		

Water parameters:

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>15.59</u>	initial <u>13.23</u>	initial <u>791</u>	initial <u>3.61</u>	initial <u>7.78</u>	initial <u>27.1</u>	initial <u>307</u>
5 min	<u>15.81</u>	<u>13.24</u>	<u>794</u>	<u>3.02</u>	<u>7.73</u>	<u>-29.3</u>	<u>232</u>
10 min	<u>16.01</u>	<u>13.42</u>	<u>797</u>	<u>2.55</u>	<u>7.81</u>	<u>-26.2</u>	<u>212</u>
15 min	<u>16.42</u>	<u>13.53</u>	<u>796</u>	<u>1.98</u>	<u>7.82</u>	<u>-13.1</u>	<u>190</u>
20 min	<u>16.66</u>	<u>13.61</u>	<u>794</u>	<u>1.79</u>	<u>7.80</u>	<u>-2.8</u>	<u>158</u>
25 min	<u>16.88</u>	<u>13.82</u>	<u>799</u>	<u>1.51</u>	<u>7.76</u>	<u>-2.9</u>	<u>121</u>
30 min	<u>17.42</u>	<u>13.64</u>	<u>801</u>	<u>1.47</u>	<u>7.75</u>	<u>4.8</u>	<u>101</u>
35 min	<u>17.77</u>	<u>13.48</u>	<u>805</u>	<u>1.48</u>	<u>7.69</u>	<u>12.1</u>	<u>36</u>
40 min	<u>17.71</u>	<u>13.49</u>	<u>803</u>	<u>1.45</u>	<u>7.70</u>	<u>13.9</u>	<u>49</u>
45 min	<u>17.90</u>	<u>13.51</u>	<u>809</u>	<u>1.47</u>	<u>7.68</u>	<u>13.5</u>	<u>29</u>

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

Water Sample:

Time Collected 1100

Physical Appearance at Start

Color slt cloudy  
 Odor None  
 Turbidity (> 100 NTU) MOD-HIGH  
 Sheen/Free Product NO

Physical Appearance at Sampling

Color clear / yellowish  
 Odor None  
 Turbidity (> 100 NTU) MOD  
 Sheen/Free Product NO

Samples collected:

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH

Notes:

collected DUP here  
 DIS. METALS req'd HIGH TURBIDITY (>20 NTUs)

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 4/24/14  
 Site Name HTRIL  
 Location BURTON, MI  
 Project No. 51441  
 Personnel AJE

Weather increasing ~50°F  
 Well # OR6 MW-6D  
 Evacuation Method S pump  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 44.39 ft.  
 Depth to Water \* 18.10 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:	
X	2" Diameter Well = 0.163 X LWC
	4" Diameter Well = 0.653 X LWC
	6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1.5 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

pH Buffer Readings  
 4.0 Standard   
 7.0 Standard   
 10.0 Standard

Conductivity Standard Readings  
 84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

Water parameters:

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>18.10</u>	initial <u>12.36</u>	initial <u>891</u>	initial <u>4.17</u>	initial <u>7.66</u>	initial <u>96.2</u>	initial <u>49</u>
5 min	<u>19.62</u>	<u>12.26</u>	<u>886</u>	<u>2.80</u>	<u>7.59</u>	<u>91.1</u>	<u>21</u>
10 min	<u>19.11</u>	<u>12.31</u>	<u>881</u>	<u>2.31</u>	<u>7.54</u>	<u>85.6</u>	<u>16</u>
15 min	<u>19.60</u>	<u>12.35</u>	<u>870</u>	<u>2.01</u>	<u>7.57</u>	<u>83.7</u>	<u>14</u>
20 min	<u>20.12</u>	<u>12.39</u>	<u>876</u>	<u>1.81</u>	<u>7.54</u>	<u>83.3</u>	<u>12</u>
25 min	<u>20.22</u>	<u>12.44</u>	<u>879</u>	<u>1.04</u>	<u>7.54</u>	<u>82.9</u>	<u>13</u>
30 min	<u>20.40</u>	<u>12.58</u>	<u>870</u>	<u>1.02</u>	<u>7.55</u>	<u>82.6</u>	<u>11</u>
35 min	_____	_____	_____	_____	_____	_____	_____
40 min	_____	_____	_____	_____	_____	_____	_____
45 min	_____	_____	_____	_____	_____	_____	_____

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

Water Sample:

Time Collected 1030

Physical Appearance at Start

Color slt cloudy  
 Odor none  
 Turbidity (> 100 NTU) low  
 Sheen/Free Product no

Physical Appearance at Sampling

Color clear  
 Odor NONE  
 Turbidity (> 100 NTU) LOW  
 Sheen/Free Product no

Samples collected:

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH

Notes:

O'Brien & Gere Engineers, Inc.

Standard Ground Water Sampling Log

Date 4/24/14  
 Site Name HERE  
 Location BURTON, MI  
 Project No. 5441  
 Personnel AS  
 Weather overcast ~50°  
 Well # ORC-MW65  
 Evacuation Method Pump  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 19.11 ft.  
 Depth to Water \* 13.79 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)  
 Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC  
 Volume removed before sampling 2 gal.(s)  
 Did well go dry? no  
 (Other, Specify) \_\_\_\_\_  
 \* Measurements taken from  Well Casing  Protective Casing

Instrument Calibration:

pH Buffer Readings  
 4.0 Standard ✓  
 7.0 Standard ✓  
 10.0 Standard ✓  
 Conductivity Standard Readings  
 84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

Water parameters:

	Pumping Rate*	Temperature Celsius	Conductivity uS/cm	Dissolved Oxygen mg/L	pH	ORP mV	Turbidity NTUs
initial	<u>13.79</u>	initial <u>10.71</u>	initial <u>921</u>	initial <u>2.59</u>	initial <u>7.06</u>	initial <u>129.2</u>	initial <u>43</u>
5 min	<u>13.94</u>	<u>10.78</u>	<u>947</u>	<u>2.31</u>	<u>7.06</u>	<u>132.7</u>	<u>32</u>
10 min	<u>14.10</u>	<u>10.89</u>	<u>941</u>	<u>2.29</u>	<u>7.02</u>	<u>129.9</u>	<u>29</u>
15 min	<u>14.31</u>	<u>10.91</u>	<u>950</u>	<u>1.87</u>	<u>6.91</u>	<u>129.1</u>	<u>26</u>
20 min	<u>14.52</u>	<u>11.09</u>	<u>949</u>	<u>1.69</u>	<u>6.85</u>	<u>128.6</u>	<u>23</u>
25 min	<u>14.79</u>	<u>11.31</u>	<u>950</u>	<u>1.57</u>	<u>6.83</u>	<u>128.2</u>	<u>20</u>
30 min	<u>15.19</u>	<u>11.41</u>	<u>959</u>	<u>1.30</u>	<u>6.81</u>	<u>131.0</u>	<u>19</u>
35 min	<u>15.36</u>	<u>11.62</u>	<u>962</u>	<u>1.29</u>	<u>6.82</u>	<u>129.4</u>	<u>16</u>
40 min	<u>15.45</u>	<u>11.59</u>	<u>969</u>	<u>1.31</u>	<u>6.80</u>	<u>129.3</u>	<u>13</u>
45 min	<u>15.55</u>	<u>11.61</u>	<u>970</u>	<u>1.30</u>	<u>6.83</u>	<u>124.1</u>	<u>10</u>

\*pumping rate should achieve minimal drawdown, which should not exceed 0.3 ft from initial static water level

Water Sample:

Time Collected 1000

Physical Appearance at Start	Physical Appearance at Sampling
Color <u>sft cloudy</u>	Color <u>clear</u>
Odor <u>none</u>	Odor <u>none</u>
Turbidity (> 100 NTU) <u>mod</u>	Turbidity (> 100 NTU) <u>low</u>
Sheen/Free Product <u>no</u>	Sheen/Free Product <u>no</u>

Samples collected:

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH

Notes: collected MS/MSD HERE FOR VOCs & METALS

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/14/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 514410  
 Personnel KBS

Weather cloudy / light Rain 65°F  
 Well # DBG MW-15  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 27.23 ft.  
 Depth to Water \* 12.44 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? No

\* Measurements taken from

Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>13.14</u>	initial <u>16.58</u>	initial <u>1279</u>	initial <u>2.93</u>	initial <u>7.08</u>	initial <u>106.0</u>	initial <u>31</u>
930 5 min	<u>13.42</u>	<u>16.50</u>	<u>1292</u>	<u>2.33</u>	<u>7.10</u>	<u>94.3</u>	<u>29</u>
935 10 min	<u>13.51</u>	<u>16.84</u>	<u>1280</u>	<u>1.88</u>	<u>7.13</u>	<u>67.2</u>	<u>18</u>
940 15 min	<u>13.62</u>	<u>16.93</u>	<u>1279</u>	<u>1.72</u>	<u>7.14</u>	<u>62.0</u>	<u>17</u>
945 20 min	<u>13.71</u>	<u>16.91</u>	<u>1277</u>	<u>1.90</u>	<u>7.18</u>	<u>43.0</u>	<u>12</u>
950 25 min	<u>13.76</u>	<u>16.92</u>	<u>1271</u>	<u>1.46</u>	<u>7.23</u>	<u>20.4</u>	<u>8</u>
955 30 min	<u>13.78</u>	<u>16.99</u>	<u>1263</u>	<u>1.42</u>	<u>7.24</u>	<u>13.5</u>	<u>9</u>
960 35 min	<u>13.82</u>	<u>17.08</u>	<u>1258</u>	<u>1.43</u>	<u>7.24</u>	<u>10.8</u>	<u>10</u>
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1000

Physical Appearance at Start

Physical Appearance at Sampling

Color Slightly cloudy  
 Odor NONE  
 Turbidity (> 100 NTU) 31  
 Sheen/Free Product NONE

Color Clear  
 Odor NONE  
 Turbidity (> 100 NTU) 10  
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes:

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/14/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather cloudy/light Rain 65°F  
 Well # OBG - MW 75  
 Evacuation Method Peristaltic/Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 17.79 ft.  
 Depth to Water \* 8.34 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? NO

\* Measurements taken from

Well Casing     Protective Casing     (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>8.34</u>	initial <u>15.61</u>	initial <u>1304</u>	initial <u>8.18</u>	initial <u>6.64</u>	initial <u>-10.3</u>	initial <u>80</u>
1035 5 min	<u>9.02</u>	<u>15.69</u>	<u>1329</u>	<u>2.55</u>	<u>6.57</u>	<u>-54.3</u>	<u>87</u>
1040 10 min	<u>9.50</u>	<u>15.79</u>	<u>1335</u>	<u>1.51</u>	<u>6.56</u>	<u>-68.5</u>	<u>68</u>
1045 15 min	<u>10.50</u>	<u>15.58</u>	<u>1330</u>	<u>1.42</u>	<u>6.57</u>	<u>-68.3</u>	<u>69</u>
1050 20 min	<u>11.20</u>	<u>15.66</u>	<u>1314</u>	<u>1.19</u>	<u>6.60</u>	<u>-67.9</u>	<u>77</u>
1055 25 min	<u>11.92</u>	<u>15.70</u>	<u>1305</u>	<u>0.94</u>	<u>6.61</u>	<u>-68.8</u>	<u>78</u>
1100 30 min	<u>12.10</u>	<u>15.77</u>	<u>1300</u>	<u>0.84</u>	<u>6.62</u>	<u>-65.0</u>	<u>76</u>
1105 35 min	<u>12.25</u>	<u>15.75</u>	<u>1297</u>	<u>0.70</u>	<u>6.62</u>	<u>-64.1</u>	<u>78</u>
1110 40 min	<u>12.61</u>	<u>15.82</u>	<u>1296</u>	<u>0.67</u>	<u>6.62</u>	<u>-66.7</u>	<u>75</u>
1115 45 min	<u>12.77</u>	<u>15.87</u>	<u>1295</u>	<u>0.63</u>	<u>6.62</u>	<u>-66.7</u>	<u>70</u>
50 min							
55 min							
60 min							

**Water Sample:**

Time Collected 1120

Physical Appearance at Start

Physical Appearance at Sampling

Color slightly cloudy/yellowish  
 Odor NONE  
 Turbidity (> 100 NTU) 82  
 Sheen/Free Product NONE/slight sheen

Color slightly cloudy/yellowish  
 Odor NONE  
 Turbidity (> 100 NTU) 70  
 Sheen/Free Product NONE/slight sheen

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	Yes

Notes: Field Filtered

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/14/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather cloudy 70°F  
 Well # 036-MW 7D  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 47.00 ft.  
 Depth to Water \* 12.43 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? No

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>12.45</u>	initial <u>14.26</u>	initial <u>597</u>	initial <u>5.11</u>	initial <u>7.52</u>	initial <u>-60.7</u>	initial <u>35</u>
11:55 5 min		<u>14.61</u>	<u>590</u>	<u>2.87</u>	<u>7.50</u>	<u>-60.9</u>	<u>62</u>
12:00 10 min		<u>14.55</u>	<u>583</u>	<u>2.03</u>	<u>7.52</u>	<u>-80.1</u>	<u>60</u>
12:05 15 min		<u>14.45</u>	<u>570</u>	<u>1.11</u>	<u>7.55</u>	<u>-90.3</u>	<u>42</u>
12:10 20 min	<u>12.54</u>	<u>13.33</u>	<u>568</u>	<u>0.99</u>	<u>7.58</u>	<u>-83.8</u>	<u>27</u>
12:15 25 min		<u>13.20</u>	<u>565</u>	<u>0.83</u>	<u>7.63</u>	<u>-64.4</u>	<u>18</u>
12:20 30 min		<u>13.08</u>	<u>563</u>	<u>0.70</u>	<u>7.65</u>	<u>-60.2</u>	<u>19</u>
12:25 35 min		<u>13.10</u>	<u>563</u>	<u>0.62</u>	<u>7.65</u>	<u>-59.1</u>	<u>12</u>
12:30 40 min		<u>13.67</u>	<u>563</u>	<u>0.56</u>	<u>7.63</u>	<u>-60.8</u>	<u>11</u>
12:35 45 min		<u>14.60</u>	<u>565</u>	<u>0.54</u>	<u>7.60</u>	<u>-61.7</u>	<u>10</u>
50 min							
55 min							
60 min							

**Water Sample:**

Time Collected 1240

Physical Appearance at Start \_\_\_\_\_

Physical Appearance at Sampling \_\_\_\_\_

Color Slightly cloudy  
 Odor None  
 Turbidity (> 100 NTU) 35  
 Sheen/Free Product None

Color Clear  
 Odor None  
 Turbidity (> 100 NTU) 10  
 Sheen/Free Product None

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes: MS/MSD

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/14/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 5141  
 Personnel KBS

Weather cloudy 70°F  
 Well # OBG-MW 25  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 20.35 ft.  
 Depth to Water \* 10.39 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1/2 gal.(s)  
 Did well go dry? No

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	10.74	initial 17.78	initial 2382	initial 4.31	initial 7.00	initial -38.5	initial 40
1325 5 min	11.71	17.57	2413	2.34	7.01	-64.3	35
1330 10 min	12.00	17.58	2412	1.73	7.01	-74.5	20
1335 15 min	12.27	17.65	2413	1.17	7.04	-77.8	12
1340 20 min	12.53	17.69	2415	1.00	7.02	-78.8	11
1345 25 min	12.38	17.88	2416	0.75	7.03	-78.2	10
1350 30 min	12.42	17.96	2435	0.67	7.03	-79.3	8
1355 35 min	12.49	17.93	2454	0.58	7.01	-79.3	8
1400 40 min	12.61	17.91	2452	0.50	7.02	-79.4	11
1405 45 min	12.74	17.95	2445	0.48	7.02	-78.6	7
1410 50 min	12.84	17.92	2439	0.45	7.01	-78.2	5
55 min							
60 min							

**Water Sample:**

Time Collected 1415

Physical Appearance at Start

Physical Appearance at Sampling

Color slightly cloudy  
 Odor NONE  
 Turbidity (> 100 NTU) 40  
 Sheen/Free Product NONE

Color Clear  
 Odor NONE  
 Turbidity (> 100 NTU) 5  
 Sheen/Free Product NONE

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes:

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/14/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather cloudy / light rain 70°F  
 Well # OBG - Mw 2D  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 38.40 ft.  
 Depth to Water \* 19.85 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? No

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>20.45</u>	initial <u>14.63</u>	initial <u>1508</u>	initial <u>2.07</u>	initial <u>7.32</u>	initial <u>-71.4</u>	initial <u>118</u>
1440 5 min		<u>14.85</u>	<u>1483</u>	<u>1.71</u>	<u>7.29</u>	<u>-71.9</u>	<u>95</u>
1445 10 min		<u>15.19</u>	<u>1477</u>	<u>0.99</u>	<u>7.30</u>	<u>-73.0</u>	<u>66</u>
1450 15 min	<u>20.55</u>	<u>15.97</u>	<u>1472</u>	<u>0.61</u>	<u>7.29</u>	<u>-72.5</u>	<u>45</u>
1455 20 min		<u>16.74</u>	<u>1477</u>	<u>0.50</u>	<u>7.30</u>	<u>-81.8</u>	<u>38</u>
1500 25 min	<u>20.85</u>	<u>15.12</u>	<u>1481</u>	<u>0.46</u>	<u>7.31</u>	<u>-82.5</u>	<u>25</u>
1505 30 min		<u>14.97</u>	<u>1474</u>	<u>0.38</u>	<u>7.31</u>	<u>-77.1</u>	<u>12</u>
1510 35 min		<u>15.43</u>	<u>1474</u>	<u>0.38</u>	<u>7.30</u>	<u>-79.4</u>	<u>10</u>
1515 40 min	<u>20.09</u>	<u>15.69</u>	<u>1470</u>	<u>0.30</u>	<u>7.30</u>	<u>-84.0</u>	<u>10</u>
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1520

Physical Appearance at Start

Physical Appearance at Sampling

Color cloudy / light gray  
 Odor NONE  
 Turbidity (> 100 NTU) 118  
 Sheen/Free Product NONE

Color clear  
 Odor NONE  
 Turbidity (> 100 NTU) 10  
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes:

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/15/14 / 10/16/14 / 10/17/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather partly cloudy 60°F  
 Well # OBG-MW65  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 19.15 ft.  
 Depth to Water \* 14.50 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? Yes

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>14.75</u>	initial <u>13.81</u>	initial <u>1394</u>	initial <u>2.83</u>	initial <u>6.77</u>	initial <u>153.2</u>	initial <u>44</u>
910 5 min	<u>15.19</u>	<u>13.89</u>	<u>1374</u>	<u>2.65</u>	<u>6.80</u>	<u>154.4</u>	<u>31</u>
915 10 min	<u>15.61</u>	<u>13.98</u>	<u>1368</u>	<u>2.61</u>	<u>6.87</u>	<u>150.0</u>	<u>18</u>
920 15 min	<u>16.00</u>	<u>14.06</u>	<u>1380</u>	<u>2.17</u>	<u>6.80</u>	<u>145.6</u>	<u>33</u>
925 20 min		<u>14.16</u>	<u>1383</u>	<u>1.38</u>	<u>6.81</u>	<u>136.0</u>	<u>20</u>
930 25 min		<u>14.11</u>	<u>1382</u>	<u>1.42</u>	<u>6.80</u>	<u>131.0</u>	<u>16</u>
935 30 min	<u>17.00</u>	<u>14.01</u>	<u>1375</u>	<u>1.11</u>	<u>6.83</u>	<u>117.7</u>	<u>27</u>
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

**Water Sample:**

Time Collected 1500 10/16/14

Physical Appearance at Start

Physical Appearance at Sampling

Color Slightly cloudy/light gray  
 Odor NONE  
 Turbidity (> 100 NTU) 44  
 Sheen/Free Product NONE

Color clear  
 Odor NONE  
 Turbidity (> 100 NTU) 18  
 Sheen/Free Product NONE

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

**Notes:**

Turbidity 18 during sampling  
 sample collected 1500 on 10/16/14

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/15/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather Partly cloudy 60°F  
 Well # OBG - MW6D  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 14.50 ft.  
 Depth to Water \* 17.73 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:
X 2" Diameter Well = 0.163 X LWC
4" Diameter Well = 0.653 X LWC
6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>18.28</u>	initial <u>12.54</u>	initial <u>913</u>	initial <u>0.37</u>	initial <u>7.68</u>	initial <u>100.4</u>	initial <u>25</u>
1005 5 min	<u>18.29</u>	<u>12.25</u>	<u>884</u>	<u>0.83</u>	<u>7.54</u>	<u>86.2</u>	<u>17</u>
1010 10 min	<u>19.53</u>	<u>12.29</u>	<u>883</u>	<u>0.79</u>	<u>7.54</u>	<u>85.5</u>	<u>19</u>
1015 15 min	<u>19.80</u>	<u>12.43</u>	<u>882</u>	<u>0.67</u>	<u>7.53</u>	<u>85.4</u>	<u>17</u>
1020 20 min	<u>20.12</u>	<u>12.39</u>	<u>888</u>	<u>0.63</u>	<u>7.53</u>	<u>84.3</u>	<u>13</u>
1025 25 min	<u>21.61</u>	<u>12.03</u>	<u>894</u>	<u>0.61</u>	<u>7.57</u>	<u>81.0</u>	<u>10</u>
1030 30 min	<u>20.75</u>	<u>12.53</u>	<u>892</u>	<u>0.60</u>	<u>7.55</u>	<u>79.6</u>	<u>10</u>
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

**Water Sample:**

Time Collected 1035

Physical Appearance at Start

Physical Appearance at Sampling

Color slightly cloudy  
 Odor NONE  
 Turbidity (> 100 NTU) 05  
 Sheen/Free Product NONE

Color clear  
 Odor NONE  
 Turbidity (> 100 NTU) 10  
 Sheen/Free Product NONE

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes:

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/15/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 57441  
 Personnel KBS

Weather Partly cloudy 60°F  
 Well # G36 - MW 5  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 20.25 ft.  
 Depth to Water \* 15.75 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1/2 gal.(s)  
 Did well go dry? No

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range  
 pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>16.26</u>	initial <u>14.67</u>	initial <u>3082</u>	initial <u>3.50</u>	initial <u>6.60</u>	initial <u>82.6</u>	initial <u>607</u>
5 min	<u>16.46</u>	<u>16.85</u>	<u>3118</u>	<u>1.53</u>	<u>6.55</u>	<u>75.1</u>	<u>316</u>
10 min		<u>16.99</u>	<u>3164</u>	<u>0.93</u>	<u>6.52</u>	<u>-9.2</u>	<u>209</u>
11:20 15 min		<u>17.18</u>	<u>3165</u>	<u>0.64</u>	<u>6.51</u>	<u>-31.9</u>	<u>193</u>
11:25 20 min		<u>17.61</u>	<u>3202</u>	<u>0.50</u>	<u>6.51</u>	<u>-39.4</u>	<u>208</u>
11:30 25 min		<u>17.95</u>	<u>3304</u>	<u>0.40</u>	<u>6.54</u>	<u>-55.6</u>	<u>247</u>
11:35 30 min		<u>17.68</u>	<u>3474</u>	<u>0.37</u>	<u>6.56</u>	<u>-67.2</u>	<u>348</u>
11:40 35 min		<u>17.51</u>	<u>3540</u>	<u>0.34</u>	<u>6.56</u>	<u>-71.7</u>	<u>333</u>
11:45 40 min		<u>17.57</u>	<u>3567</u>	<u>0.33</u>	<u>6.56</u>	<u>-73.2</u>	<u>177</u>
11:50 45 min		<u>17.76</u>	<u>3574</u>	<u>0.33</u>	<u>6.55</u>	<u>-73.1</u>	<u>139</u>
11:55 50 min		<u>17.50</u>	<u>3591</u>	<u>0.31</u>	<u>6.55</u>	<u>-74.3</u>	<u>123</u>
55 min							
60 min							

**Water Sample:**

Time Collected 1215

Physical Appearance at Start \_\_\_\_\_

Color Yellowish  
 Odor \_\_\_\_\_  
 Turbidity (> 100 NTU) \_\_\_\_\_  
 Sheen/Free Product \_\_\_\_\_

Physical Appearance at Sampling \_\_\_\_\_

Color Yellowish  
 Odor \_\_\_\_\_  
 Turbidity (> 100 NTU) \_\_\_\_\_  
 Sheen/Free Product \_\_\_\_\_

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	Yes

**Notes:**

could not read DTM due to water probe hitting top of pump  
 Field Filtered

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/16/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather cloudy 55°F  
 Well # 0136-05-MW-3  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 30.30 ft.  
 Depth to Water \* 26.01 ft.  
 Length of Water Column 4 ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling \_\_\_\_\_ gal.(s)  
 Did well go dry? \_\_\_\_\_

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>26.01</u>	initial <u>12.40</u>	initial <u>1989</u>	initial <u>5.17</u>	initial <u>6.61</u>	initial <u>90.0</u>	initial <u>114</u>
840 5 min		<u>12.60</u>	<u>1958</u>	<u>1.82</u>	<u>6.73</u>	<u>-44.2</u>	<u>107</u>
845 10 min		<u>12.93</u>	<u>1941</u>	<u>1.46</u>	<u>6.75</u>	<u>-72.2</u>	<u>104</u>
850 15 min		<u>12.31</u>	<u>1968</u>	<u>1.38</u>	<u>6.75</u>	<u>-101.7</u>	<u>77</u>
855 20 min		<u>12.32</u>	<u>1972</u>	<u>1.21</u>	<u>6.76</u>	<u>-106.1</u>	<u>62</u>
900 25 min		<u>12.29</u>	<u>1978</u>	<u>1.11</u>	<u>6.77</u>	<u>-107.9</u>	<u>52</u>
905 30 min		<u>12.27</u>	<u>1983</u>	<u>1.00</u>	<u>6.76</u>	<u>-105.9</u>	<u>42</u>
910 35 min		<u>12.29</u>	<u>1975</u>	<u>0.90</u>	<u>6.75</u>	<u>-105.2</u>	<u>34</u>
915 40 min		<u>12.29</u>	<u>1987</u>	<u>0.80</u>	<u>6.74</u>	<u>-104.5</u>	<u>24</u>
920 45 min		<u>12.30</u>	<u>1988</u>	<u>0.77</u>	<u>6.74</u>	<u>-102.0</u>	<u>21</u>
925 50 min		<u>12.29</u>	<u>1988</u>	<u>0.72</u>	<u>6.73</u>	<u>-102.6</u>	<u>20</u>
55 min							
60 min							

Water Sample:

Time Collected 925

Physical Appearance at Start \_\_\_\_\_

Physical Appearance at Sampling \_\_\_\_\_

Color slightly cloudy/light gray  
 Odor NONE  
 Turbidity (> 100 NTU) 114  
 Sheen/Free Product NONE

Color clear / slightly cloudy  
 Odor NONE  
 Turbidity (> 100 NTU) 20  
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes:

**O'Brien & Gere Engineers, Inc. Standard Groundwater Sampling Log**

Date 10/16/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS  
 Weather cloudy 60°F  
 Well # OBG-05 MW 4  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

**Well Information:**  
 Depth of Well \* 27.73 ft.  
 Depth to Water \* 24.38 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)  
 Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC  
 Volume removed before sampling \_\_\_\_\_ gal.(s)  
 Did well go dry? No  
 \* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:** Calibrated within range  
 pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>24.40</u>	initial <u>12.90</u>	initial <u>2135</u>	initial <u>1.71</u>	initial <u>6.62</u>	initial <u>-47.9</u>	initial <u>10</u>
955 5 min		<u>12.63</u>	<u>2150</u>	<u>1.94</u>	<u>6.60</u>	<u>-69.7</u>	<u>8</u>
1000 10 min		<u>12.59</u>	<u>2146</u>	<u>1.34</u>	<u>6.60</u>	<u>-74.9</u>	<u>7</u>
1005 15 min		<u>12.54</u>	<u>2146</u>	<u>1.04</u>	<u>6.60</u>	<u>-77.2</u>	<u>7</u>
1010 20 min		<u>12.49</u>	<u>2146</u>	<u>0.83</u>	<u>6.60</u>	<u>-78.7</u>	<u>7</u>
1015 25 min		<u>12.44</u>	<u>2146</u>	<u>0.81</u>	<u>6.60</u>	<u>-78.8</u>	<u>6</u>
1020 30 min	↓	<u>12.44</u>	<u>2145</u>	<u>0.77</u>	<u>6.60</u>	<u>-80.9</u>	<u>6</u>
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

**Water Sample:** Time Collected 1020  
 Physical Appearance at Start  clear  
 Color \_\_\_\_\_  
 Odor slight chemical odor  
 Turbidity (> 100 NTU) 0  
 Sheen/Free Product slight sheen  
 Physical Appearance at Sampling  clear  
 Color \_\_\_\_\_  
 Odor slight chemical odor  
 Turbidity (> 100 NTU) 0  
 Sheen/Free Product slight sheen

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes:

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/16/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather Cloudy 60°F  
 Well # 036-05-MW5  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 28.13 ft.  
 Depth to Water \* 24.81 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 \_\_\_\_\_ 4" Diameter Well = 0.653 X LWC  
 \_\_\_\_\_ 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? No  
 (Other, Specify) \_\_\_\_\_

\* Measurements taken from  Well Casing  Protective Casing  \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>24.84</u>	initial <u>13.36</u>	initial <u>2974</u>	initial <u>3.01</u>	initial <u>6.49</u>	initial <u>-39.6</u>	initial <u>26</u>
1053 5 min		<u>13.34</u>	<u>2945</u>	<u>1.11</u>	<u>6.46</u>	<u>-51.6</u>	<u>27</u>
1106 10 min		<u>13.40</u>	<u>2918</u>	<u>0.81</u>	<u>6.44</u>	<u>-54.6</u>	<u>20</u>
1155 15 min		<u>13.52</u>	<u>2870</u>	<u>0.60</u>	<u>6.42</u>	<u>-52.5</u>	<u>19</u>
1110 20 min		<u>13.64</u>	<u>2824</u>	<u>0.47</u>	<u>6.40</u>	<u>-58.7</u>	<u>19</u>
1115 25 min		<u>13.64</u>	<u>2780</u>	<u>0.46</u>	<u>6.41</u>	<u>-59.5</u>	<u>18</u>
1120 30 min		<u>13.62</u>	<u>2747</u>	<u>0.44</u>	<u>6.41</u>	<u>-60.7</u>	<u>17</u>
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

**Water Sample:**

Time Collected 1120

Physical Appearance at Start \_\_\_\_\_

Physical Appearance at Sampling \_\_\_\_\_

Color clear  
 Odor chemical odor  
 Turbidity (> 100 NTU) 26  
 Sheen/Free Product light green

Color clear  
 Odor chemical odor  
 Turbidity (> 100 NTU) 17  
 Sheen/Free Product none

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes:

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/16/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather cloudy 60°F  
 Well # OBG-05 - MW1  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 30.13 ft.  
 Depth to Water \* 22.02 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 1/2 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>22.26</u>	initial <u>13.95</u>	initial <u>1236</u>	initial <u>2.60</u>	initial <u>6.76</u>	initial <u>-49.4</u>	initial <u>132</u>
1200 5 min	<u>22.49</u>	<u>14.02</u>	<u>1191</u>	<u>0.83</u>	<u>6.73</u>	<u>-42.0</u>	<u>97</u>
1205 10 min	<u>22.58</u>	<u>13.98</u>	<u>1185</u>	<u>0.69</u>	<u>6.73</u>	<u>-45.5</u>	<u>88</u>
1210 15 min	<u>22.75</u>	<u>13.93</u>	<u>1164</u>	<u>0.49</u>	<u>6.72</u>	<u>-61.4</u>	<u>63</u>
1215 20 min	<u>22.81</u>	<u>13.49</u>	<u>1151</u>	<u>0.48</u>	<u>6.70</u>	<u>-69.7</u>	<u>55</u>
1220 25 min	<u>22.90</u>	<u>14.20</u>	<u>1141</u>	<u>0.43</u>	<u>6.70</u>	<u>-71.8</u>	<u>43</u>
1225 30 min	<u>22.98</u>	<u>14.33</u>	<u>1131</u>	<u>0.40</u>	<u>6.71</u>	<u>-73.9</u>	<u>39</u>
1230 35 min	<u>23.01</u>	<u>14.28</u>	<u>1128</u>	<u>0.36</u>	<u>6.71</u>	<u>-73.7</u>	<u>30</u>
1235 40 min	<u>23.06</u>	<u>14.28</u>	<u>1125</u>	<u>0.37</u>	<u>6.71</u>	<u>-74.4</u>	<u>31</u>
1240 45 min	<u>23.12</u>	<u>14.12</u>	<u>1123</u>	<u>0.26</u>	<u>6.71</u>	<u>-76.2</u>	<u>29</u>
50 min	<u>23.19</u>	<u>14.12</u>	<u>1120</u>	<u>0.34</u>	<u>6.71</u>	<u>-77.6</u>	<u>28</u>
55 min	_____	_____	_____	_____	_____	_____	_____
60 min	_____	_____	_____	_____	_____	_____	_____

**Water Sample:**

Time Collected 1245

Physical Appearance at Start \_\_\_\_\_

Physical Appearance at Sampling \_\_\_\_\_

Color slightly cloudy / light gray  
 Odor NONE  
 Turbidity (> 100 NTU) 132  
 Sheen/Free Product NONE

Color clear / slightly cloudy  
 Odor NONE  
 Turbidity (> 100 NTU) 28  
 Sheen/Free Product NONE

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes: \_\_\_\_\_

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date 10/16/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 5141  
 Personnel KBS

Weather cloudy 60°F  
 Well # OBG-OS-MW 2  
 Evacuation Method Peristaltic / Submersible pump  
 Sampling Method Low-flow

Well Information:

Depth of Well \* 30.20 ft.  
 Depth to Water \* 21.46 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? No

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

Instrument Calibration:

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

Water parameters:

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>21.60</u>	initial <u>14.31</u>	initial <u>527</u>	initial <u>10.97</u>	initial <u>6.71</u>	initial <u>-45.0</u>	initial <u>28</u>
5 min	<u>21.65</u>	<u>14.01</u>	<u>999</u>	<u>1.89</u>	<u>6.67</u>	<u>-55.9</u>	<u>21</u>
10 min	<u>21.76</u>	<u>14.31</u>	<u>997</u>	<u>0.82</u>	<u>6.65</u>	<u>-62.7</u>	<u>12</u>
15 min	<u>21.89</u>	<u>14.35</u>	<u>996</u>	<u>0.60</u>	<u>6.67</u>	<u>-66.1</u>	<u>13</u>
20 min	<u>21.99</u>	<u>14.30</u>	<u>996</u>	<u>0.53</u>	<u>6.67</u>	<u>-67.9</u>	<u>7</u>
25 min	<u>22.12</u>	<u>14.21</u>	<u>997</u>	<u>0.49</u>	<u>6.67</u>	<u>-68.9</u>	<u>10</u>
30 min	<u>22.21</u>	<u>14.08</u>	<u>996</u>	<u>0.47</u>	<u>6.67</u>	<u>-69.1</u>	<u>7</u>
35 min	<u>22.32</u>	<u>14.</u>	<u>995</u>	<u>0.44</u>	<u>6.67</u>	<u>-69.3</u>	<u>8</u>
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:

Time Collected 1340

Physical Appearance at Start

Physical Appearance at Sampling

Color clear  
 Odor NONE  
 Turbidity (> 100 NTU) 28  
 Sheen/Free Product NONE

Color clear  
 Odor NONE  
 Turbidity (> 100 NTU) 8  
 Sheen/Free Product NONE

Samples collected:

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

Notes:

**O'Brien & Gere Engineers, Inc.**

**Standard Groundwater Sampling Log**

Date 10/14/14 10/16/14  
 Site Name RACER Site #1291 - Burton Parcel  
 Location Burton, MI  
 Project No. 51441  
 Personnel KBS

Weather Rain / cloudy 60°F  
 Well # OBG MW 3  
 Evacuation Method (Peristaltic) / Submersible pump  
 Sampling Method Low-flow

**Well Information:**

Depth of Well \* 27.60 ft.  
 Depth to Water \* 22.93 ft.  
 Length of Water Column \_\_\_\_\_ ft.  
 Volume of Water in Well \_\_\_\_\_ gal.(s)  
 3X Volume of Water in Well \_\_\_\_\_ gal.(s)

Water Volume /ft. for:  
 X 2" Diameter Well = 0.163 X LWC  
 4" Diameter Well = 0.653 X LWC  
 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 1 gal.(s)  
 Did well go dry? NO

\* Measurements taken from  Well Casing  Protective Casing  (Other, Specify) \_\_\_\_\_

**Instrument Calibration:**

Calibrated within range

pH Yes  
 ORP Yes  
 Conductivity Yes  
 DO Yes

**Water parameters:**

	Drawdown measured 0.3 feet or less	Temperature Celsius ±3 percent	Conductivity uS/cm ±3 percent	Dissolved Oxygen mg/L ±10 percent	pH ±0.1 pH units	ORP mV ±10 millivolts	Turbidity NTUs ±10 percent
initial	<u>22.93</u>	initial <u>16.50</u>	initial <u>1928</u>	initial <u>8.52</u>	initial <u>6.97</u>	initial <u>-3.8</u>	initial <u>17</u>
1415 5 min	↓	<u>16.38</u>	<u>3945</u>	<u>1.31</u>	<u>7.00</u>	<u>-46.9</u>	<u>11</u>
1420 10 min		<u>16.35</u>	<u>3930</u>	<u>0.95</u>	<u>7.00</u>	<u>-55.9</u>	<u>15</u>
1425 15 min		<u>16.38</u>	<u>3892</u>	<u>0.64</u>	<u>6.98</u>	<u>-59.1</u>	<u>13</u>
1430 20 min		<u>16.39</u>	<u>3889</u>	<u>0.55</u>	<u>6.98</u>	<u>-57.9</u>	<u>6</u>
1435 25 min		<u>16.44</u>	<u>3892</u>	<u>0.49</u>	<u>6.97</u>	<u>-56.7</u>	<u>7</u>
1440 30 min		<u>16.52</u>	<u>3868</u>	<u>0.40</u>	<u>6.97</u>	<u>-55.5</u>	<u>7</u>
1445 35 min		<u>16.50</u>	<u>3863</u>	<u>0.38</u>	<u>6.97</u>	<u>-53.7</u>	<u>5</u>
40 min							
45 min							
50 min							
55 min							
60 min							

**Water Sample:**

Time Collected 1445

Physical Appearance at Start

Physical Appearance at Sampling

Color Clear  
 Odor NONE  
 Turbidity (> 100 NTU) 17  
 Sheen/Free Product NONE

Color Clear  
 Odor NONE  
 Turbidity (> 100 NTU) 5  
 Sheen/Free Product NONE

**Samples collected:**

Analyses	# Bottles	Bottle size/type	Preservative	Field Filtered
VOCs	3	40 ml glass vials	HCl	no
Arsenic, Lead, Barium, Zinc	1	125 ml plastic	HNO <sub>3</sub>	

**Notes:**

Kink in well @ 32.31' from TOC  
 Need to use Peristaltic Pump

DUP-1 collected

*Exhibit B*

*Groundwater Analytical Data  
April 2014*



# Analytical Laboratory Report

Report ID: S60808.01(01)  
Generated on 05/02/2014

Report to

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

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

Report produced by

Merit Laboratories, Inc.  
2680 East Lansing Drive  
East Lansing, MI 48823

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

Contacts for report questions:  
Kevin George (kgeorge@meritlabs.com)  
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S60808.01-S60808.14  
Project: RACER TRUST HRIL SA GWS  
Collected Date: 04/24/2014  
Submitted Date/Time: 04/25/2014 12:45  
Sampled by: AJ Finch  
P.O. #: 11412566

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 reporting limit (RL).  
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.  
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002)  
IN Drinking Water (#C-MI-07), NELAC NY (#11814), NCDENR (#680), NC Drinking Water (#26702)  
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak  
Laboratory Director



# Analytical Laboratory Report

## Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S60808.01	OBG MW-3	Groundwater	04/24/2014 08:00
S60808.02	OBG MW-2S	Groundwater	04/24/2014 08:20
S60808.03	OBG MW-2D	Groundwater	04/24/2014 09:00
S60808.04	OBG MW-1S	Groundwater	04/24/2014 09:20
S60808.05	OBG MW-6S	Groundwater	04/24/2014 10:00
S60808.06	OBG MW-6S MS	Groundwater	04/24/2014 10:00
S60808.07	OBG MW-6S MSD	Groundwater	04/24/2014 10:00
S60808.08	OBG MW-6D	Groundwater	04/24/2014 10:30
S60808.09	OBG MW-5	Groundwater	04/24/2014 11:00
S60808.10	DUP	Groundwater	04/24/2014 00:01
S60808.11	OBG MW-1S Colocated	Groundwater	04/24/2014 09:20
S60808.12	OBG MW-7S	Groundwater	04/24/2014 13:00
S60808.13	OBG MW-7D	Groundwater	04/24/2014 14:00
S60808.14	TB	Liquid	04/24/2014 00:01



# Analytical Laboratory Report

Lab Sample ID: S60808.01  
 Sample Tag: OBG MW-3  
 Collected Date/Time: 04/24/2014 08:00  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.004	mg/L	0.002	E200.8	05/02/14 13:13	CCM	7440-38-2	
Barium	0.079	mg/L	0.005	E200.8	05/02/14 13:13	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	05/02/14 13:13	CCM	7439-92-1	
Zinc	Not detected	mg/L	0.005	E200.8	05/02/14 13:13	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 15:42	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 15:42	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 15:42	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 15:42	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 15:42	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 15:42	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 15:42	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.01 (continued)

Sample Tag: OBG MW-3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 15:42	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:42	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 15:42	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.02  
 Sample Tag: OBG MW-2S  
 Collected Date/Time: 04/24/2014 08:20  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.004	mg/L	0.002	E200.8	05/02/14 13:15	CCM	7440-38-2	
Barium	0.160	mg/L	0.005	E200.8	05/02/14 13:15	CCM	7440-39-3	
Lead	0.004	mg/L	0.003	E200.8	05/02/14 13:15	CCM	7439-92-1	
Zinc	Not detected	mg/L	0.005	E200.8	05/02/14 13:15	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 16:03	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 16:03	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 16:03	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 16:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 16:03	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 16:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 16:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.02 (continued)

Sample Tag: OBG MW-2S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 16:03	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:03	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 16:03	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.03  
 Sample Tag: OBG MW-2D  
 Collected Date/Time: 04/24/2014 09:00  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.013	mg/L	0.002	E200.8	05/02/14 13:17	CCM	7440-38-2	
Barium	0.258	mg/L	0.005	E200.8	05/02/14 13:17	CCM	7440-39-3	
Lead	0.004	mg/L	0.003	E200.8	05/02/14 13:17	CCM	7439-92-1	
Zinc	Not detected	mg/L	0.005	E200.8	05/02/14 13:17	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 16:23	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 16:23	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 16:23	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 16:23	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 16:23	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 16:23	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 16:23	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.03 (continued)

Sample Tag: OBG MW-2D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 16:23	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:23	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 16:23	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.04  
 Sample Tag: OBG MW-1S  
 Collected Date/Time: 04/24/2014 09:20  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	Not detected	mg/L	0.002	E200.8	05/02/14 13:19	CCM	7440-38-2	
Barium	0.119	mg/L	0.005	E200.8	05/02/14 13:19	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	05/02/14 13:19	CCM	7439-92-1	
Zinc	Not detected	mg/L	0.005	E200.8	05/02/14 13:19	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 16:43	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 16:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 16:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 16:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 16:43	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 16:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 16:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.04 (continued)

Sample Tag: OBG MW-1S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 16:43	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 16:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 16:43	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.05  
 Sample Tag: OBG MW-6S  
 Collected Date/Time: 04/24/2014 10:00  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.004	mg/L	0.002	E200.8	05/02/14 13:31	CCM	7440-38-2	
Barium	0.161	mg/L	0.005	E200.8	05/02/14 13:31	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	05/02/14 13:31	CCM	7439-92-1	
Zinc	Not detected	mg/L	0.005	E200.8	05/02/14 13:31	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 15:22	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 15:22	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 15:22	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 15:22	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 15:22	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 15:22	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 15:22	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.05 (continued)

Sample Tag: OBG MW-6S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 15:22	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 15:22	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 15:22	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.06  
 Sample Tag: OBG MW-6S MS  
 Collected Date/Time: 04/24/2014 10:00  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.263	mg/L	0.002	E200.8	05/02/14 13:33	CCM	7440-38-2	
Barium	0.422	mg/L	0.005	E200.8	05/02/14 13:33	CCM	7440-39-3	
Lead	0.237	mg/L	0.003	E200.8	05/02/14 13:33	CCM	7439-92-1	
Zinc	0.260	mg/L	0.005	E200.8	05/02/14 13:33	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	55	ug/L	10	SW8260C	04/28/14 12:57	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 12:57	WAT	67-64-1	1
Methyl iodide	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	74-88-4	1
Carbon disulfide	46	ug/L	5	SW8260C	04/28/14 12:57	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	51	ug/L	5	SW8260C	04/28/14 12:57	WAT	1634-04-4	1
Acrylonitrile	50	ug/L	2	SW8260C	04/28/14 12:57	WAT	107-13-1	1
2-Butanone (MEK)	47	ug/L	25	SW8260C	04/28/14 12:57	WAT	78-93-3	1
Dichlorodifluoromethane	46	ug/L	5	SW8260C	04/28/14 12:57	WAT	75-71-8	1
Chloromethane	50	ug/L	5	SW8260C	04/28/14 12:57	WAT	74-87-3	1
Vinyl chloride	51	ug/L	1	SW8260C	04/28/14 12:57	WAT	75-01-4	1
Bromomethane	59	ug/L	5	SW8260C	04/28/14 12:57	WAT	74-83-9	1
Chloroethane	60	ug/L	5	SW8260C	04/28/14 12:57	WAT	75-00-3	1
Trichlorofluoromethane	58	ug/L	1	SW8260C	04/28/14 12:57	WAT	75-69-4	1
1,1-Dichloroethene	55	ug/L	1	SW8260C	04/28/14 12:57	WAT	75-35-4	1
Methylene chloride	51	ug/L	5	SW8260C	04/28/14 12:57	WAT	75-09-2	1
trans-1,2-Dichloroethene	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	156-60-5	1
1,1-Dichloroethane	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 12:57	WAT	109-99-9	1
Chloroform	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	67-66-3	1
Bromochloromethane	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	74-97-5	1
1,1,1-Trichloroethane	54	ug/L	1	SW8260C	04/28/14 12:57	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 12:57	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 12:57	WAT	591-78-6	1
Carbon tetrachloride	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	56-23-5	1
Benzene	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	71-43-2	1
1,2-Dichloroethane	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	107-06-2	1
Trichloroethene	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	78-87-5	1
Bromodichloromethane	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	75-27-4	1

1-Spiked at 50ug/l



# Analytical Laboratory Report

Lab Sample ID: S60808.06 (continued)

Sample Tag: OBG MW-6S MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	50	ug/L	5	SW8260C	04/28/14 12:57	WAT	74-95-3	1
cis-1,3-Dichloropropene	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	10061-01-5	1
Toluene	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	108-88-3	1
trans-1,3-Dichloropropene	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	10061-02-6	1
1,1,2-Trichloroethane	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	79-00-5	1
Tetrachloroethene	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	45	ug/L	1	SW8260C	04/28/14 12:57	WAT	110-57-6	1
Dibromochloromethane	52	ug/L	5	SW8260C	04/28/14 12:57	WAT	124-48-1	1
1,2-Dibromoethane	51	ug/L	1	SW8260C	04/28/14 12:57	WAT	106-93-4	1
Chlorobenzene	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	56	ug/L	1	SW8260C	04/28/14 12:57	WAT	630-20-6	1
Ethylbenzene	55	ug/L	1	SW8260C	04/28/14 12:57	WAT	100-41-4	1
p,m-Xylene	111	ug/L	2	SW8260C	04/28/14 12:57	WAT		1
o-Xylene	56	ug/L	1	SW8260C	04/28/14 12:57	WAT	95-47-6	1
Styrene	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	100-42-5	1
Isopropylbenzene	53	ug/L	5	SW8260C	04/28/14 12:57	WAT	98-82-8	1
Bromoform	49	ug/L	1	SW8260C	04/28/14 12:57	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	51	ug/L	1	SW8260C	04/28/14 12:57	WAT	79-34-5	1
1,2,3-Trichloropropane	54	ug/L	1	SW8260C	04/28/14 12:57	WAT	96-18-4	1
n-Propylbenzene	54	ug/L	1	SW8260C	04/28/14 12:57	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	SW8260C	04/28/14 12:57	WAT	108-86-1	1
1,3,5-Trimethylbenzene	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	108-67-8	1
tert-Butylbenzene	55	ug/L	1	SW8260C	04/28/14 12:57	WAT	98-06-6	1
1,2,4-Trimethylbenzene	54	ug/L	1	SW8260C	04/28/14 12:57	WAT	95-63-6	1
sec-Butylbenzene	56	ug/L	1	SW8260C	04/28/14 12:57	WAT	135-98-8	1
p-Isopropyltoluene	60	ug/L	5	SW8260C	04/28/14 12:57	WAT	99-87-6	1
1,3-Dichlorobenzene	56	ug/L	1	SW8260C	04/28/14 12:57	WAT	541-73-1	1
1,4-Dichlorobenzene	53	ug/L	1	SW8260C	04/28/14 12:57	WAT	106-46-7	1
1,2-Dichlorobenzene	52	ug/L	1	SW8260C	04/28/14 12:57	WAT	95-50-1	1
1,2,3-Trimethylbenzene	54	ug/L	1	SW8260C	04/28/14 12:57	WAT	526-73-8	1
n-Butylbenzene	58	ug/L	1	SW8260C	04/28/14 12:57	WAT	104-51-8	1
Hexachloroethane	52	ug/L	5	SW8260C	04/28/14 12:57	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	51	ug/L	5	SW8260C	04/28/14 12:57	WAT	96-12-8	1
1,2,4-Trichlorobenzene	52	ug/L	5	SW8260C	04/28/14 12:57	WAT	120-82-1	1
1,2,3-Trichlorobenzene	51	ug/L	5	SW8260C	04/28/14 12:57	WAT	87-61-6	1
Naphthalene	49	ug/L	5	SW8260C	04/28/14 12:57	WAT	91-20-3	1
2-Methylnaphthalene	51	ug/L	5	SW8260C	04/28/14 12:57	WAT	91-57-6	1

1-Spiked at 50ug/l



# Analytical Laboratory Report

Lab Sample ID: S60808.07  
 Sample Tag: OBG MW-6S MSD  
 Collected Date/Time: 04/24/2014 10:00  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.272	mg/L	0.002	E200.8	05/02/14 13:35	CCM	7440-38-2	
Barium	0.425	mg/L	0.005	E200.8	05/02/14 13:35	CCM	7440-39-3	
Lead	0.239	mg/L	0.003	E200.8	05/02/14 13:35	CCM	7439-92-1	
Zinc	0.262	mg/L	0.005	E200.8	05/02/14 13:35	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	56	ug/L	10	SW8260C	04/28/14 13:18	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 13:18	WAT	67-64-1	1
Methyl iodide	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	74-88-4	1
Carbon disulfide	41	ug/L	5	SW8260C	04/28/14 13:18	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	52	ug/L	5	SW8260C	04/28/14 13:18	WAT	1634-04-4	1
Acrylonitrile	51	ug/L	2	SW8260C	04/28/14 13:18	WAT	107-13-1	1
2-Butanone (MEK)	48	ug/L	25	SW8260C	04/28/14 13:18	WAT	78-93-3	1
Dichlorodifluoromethane	47	ug/L	5	SW8260C	04/28/14 13:18	WAT	75-71-8	1
Chloromethane	50	ug/L	5	SW8260C	04/28/14 13:18	WAT	74-87-3	1
Vinyl chloride	52	ug/L	1	SW8260C	04/28/14 13:18	WAT	75-01-4	1
Bromomethane	60	ug/L	5	SW8260C	04/28/14 13:18	WAT	74-83-9	1
Chloroethane	60	ug/L	5	SW8260C	04/28/14 13:18	WAT	75-00-3	1
Trichlorofluoromethane	58	ug/L	1	SW8260C	04/28/14 13:18	WAT	75-69-4	1
1,1-Dichloroethene	56	ug/L	1	SW8260C	04/28/14 13:18	WAT	75-35-4	1
Methylene chloride	52	ug/L	5	SW8260C	04/28/14 13:18	WAT	75-09-2	1
trans-1,2-Dichloroethene	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	156-60-5	1
1,1-Dichloroethane	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	75-34-3	1
cis-1,2-Dichloroethene	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 13:18	WAT	109-99-9	1
Chloroform	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	67-66-3	1
Bromochloromethane	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	74-97-5	1
1,1,1-Trichloroethane	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 13:18	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 13:18	WAT	591-78-6	1
Carbon tetrachloride	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	56-23-5	1
Benzene	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	71-43-2	1
1,2-Dichloroethane	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	107-06-2	1
Trichloroethene	53	ug/L	1	SW8260C	04/28/14 13:18	WAT	79-01-6	1
1,2-Dichloropropane	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	78-87-5	1
Bromodichloromethane	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	75-27-4	1

1-Spiked at 50ug/l



# Analytical Laboratory Report

Lab Sample ID: S60808.07 (continued)

Sample Tag: OBG MW-6S MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	51	ug/L	5	SW8260C	04/28/14 13:18	WAT	74-95-3	1
cis-1,3-Dichloropropene	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	10061-01-5	1
Toluene	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	108-88-3	1
trans-1,3-Dichloropropene	53	ug/L	1	SW8260C	04/28/14 13:18	WAT	10061-02-6	1
1,1,2-Trichloroethane	53	ug/L	1	SW8260C	04/28/14 13:18	WAT	79-00-5	1
Tetrachloroethene	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	40	ug/L	1	SW8260C	04/28/14 13:18	WAT	110-57-6	1
Dibromochloromethane	52	ug/L	5	SW8260C	04/28/14 13:18	WAT	124-48-1	1
1,2-Dibromoethane	52	ug/L	1	SW8260C	04/28/14 13:18	WAT	106-93-4	1
Chlorobenzene	53	ug/L	1	SW8260C	04/28/14 13:18	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	57	ug/L	1	SW8260C	04/28/14 13:18	WAT	630-20-6	1
Ethylbenzene	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	100-41-4	1
p,m-Xylene	111	ug/L	2	SW8260C	04/28/14 13:18	WAT		1
o-Xylene	56	ug/L	1	SW8260C	04/28/14 13:18	WAT	95-47-6	1
Styrene	48	ug/L	1	SW8260C	04/28/14 13:18	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	SW8260C	04/28/14 13:18	WAT	98-82-8	1
Bromoform	49	ug/L	1	SW8260C	04/28/14 13:18	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	52	ug/L	1	SW8260C	04/28/14 13:18	WAT	79-34-5	1
1,2,3-Trichloropropane	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	96-18-4	1
n-Propylbenzene	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	103-65-1	1
Bromobenzene	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	108-86-1	1
1,3,5-Trimethylbenzene	51	ug/L	1	SW8260C	04/28/14 13:18	WAT	108-67-8	1
tert-Butylbenzene	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	98-06-6	1
1,2,4-Trimethylbenzene	52	ug/L	1	SW8260C	04/28/14 13:18	WAT	95-63-6	1
sec-Butylbenzene	55	ug/L	1	SW8260C	04/28/14 13:18	WAT	135-98-8	1
p-Isopropyltoluene	59	ug/L	5	SW8260C	04/28/14 13:18	WAT	99-87-6	1
1,3-Dichlorobenzene	57	ug/L	1	SW8260C	04/28/14 13:18	WAT	541-73-1	1
1,4-Dichlorobenzene	54	ug/L	1	SW8260C	04/28/14 13:18	WAT	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	SW8260C	04/28/14 13:18	WAT	95-50-1	1
1,2,3-Trimethylbenzene	53	ug/L	1	SW8260C	04/28/14 13:18	WAT	526-73-8	1
n-Butylbenzene	58	ug/L	1	SW8260C	04/28/14 13:18	WAT	104-51-8	1
Hexachloroethane	51	ug/L	5	SW8260C	04/28/14 13:18	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	50	ug/L	5	SW8260C	04/28/14 13:18	WAT	96-12-8	1
1,2,4-Trichlorobenzene	55	ug/L	5	SW8260C	04/28/14 13:18	WAT	120-82-1	1
1,2,3-Trichlorobenzene	54	ug/L	5	SW8260C	04/28/14 13:18	WAT	87-61-6	1
Naphthalene	52	ug/L	5	SW8260C	04/28/14 13:18	WAT	91-20-3	1
2-Methylnaphthalene	53	ug/L	5	SW8260C	04/28/14 13:18	WAT	91-57-6	1

1-Spiked at 50ug/l



# Analytical Laboratory Report

Lab Sample ID: S60808.08  
 Sample Tag: OBG MW-6D  
 Collected Date/Time: 04/24/2014 10:30  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.004	mg/L	0.002	E200.8	05/02/14 13:21	CCM	7440-38-2	
Barium	0.078	mg/L	0.005	E200.8	05/02/14 13:21	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	05/02/14 13:21	CCM	7439-92-1	
Zinc	Not detected	mg/L	0.005	E200.8	05/02/14 13:21	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 17:04	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 17:04	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 17:04	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 17:04	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 17:04	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 17:04	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 17:04	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.08 (continued)

Sample Tag: OBG MW-6D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 17:04	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:04	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 17:04	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.09  
 Sample Tag: OBG MW-5  
 Collected Date/Time: 04/24/2014 11:00  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	None	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic, Dissolved	Not detected	mg/L	0.002	E200.8	05/02/14 14:22	CCM	7440-38-2	
Barium, Dissolved	0.930	mg/L	0.005	E200.8	05/02/14 14:22	CCM	7440-39-3	
Lead, Dissolved	0.003	mg/L	0.003	E200.8	05/02/14 14:22	CCM	7439-92-1	
Zinc, Dissolved	0.118	mg/L	0.005	E200.8	05/02/14 14:22	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 17:24	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 17:24	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 17:24	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 17:24	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 17:24	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 17:24	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 17:24	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	56-23-5	
Benzene	2	ug/L	1	SW8260C	04/28/14 17:24	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.09 (continued)

Sample Tag: OBG MW-5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	106-93-4	
Chlorobenzene	1	ug/L	1	SW8260C	04/28/14 17:24	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 17:24	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	541-73-1	
1,4-Dichlorobenzene	1	ug/L	1	SW8260C	04/28/14 17:24	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	95-50-1	
1,2,3-Trimethylbenzene	2	ug/L	1	SW8260C	04/28/14 17:24	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:24	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 17:24	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.10  
 Sample Tag: DUP  
 Collected Date/Time: 04/24/2014 00:01  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	None	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic, Dissolved	Not detected	mg/L	0.002	E200.8	05/02/14 14:24	CCM	7440-38-2	
Barium, Dissolved	0.875	mg/L	0.005	E200.8	05/02/14 14:24	CCM	7440-39-3	
Lead, Dissolved	0.003	mg/L	0.003	E200.8	05/02/14 14:24	CCM	7439-92-1	
Zinc, Dissolved	0.119	mg/L	0.005	E200.8	05/02/14 14:24	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 17:45	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 17:45	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 17:45	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 17:45	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 17:45	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 17:45	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 17:45	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	56-23-5	
Benzene	2	ug/L	1	SW8260C	04/28/14 17:45	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.10 (continued)

Sample Tag: DUP

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	106-93-4	
Chlorobenzene	2	ug/L	1	SW8260C	04/28/14 17:45	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 17:45	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	96-18-4	
n-Propylbenzene	1	ug/L	1	SW8260C	04/28/14 17:45	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	541-73-1	
1,4-Dichlorobenzene	1	ug/L	1	SW8260C	04/28/14 17:45	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	95-50-1	
1,2,3-Trimethylbenzene	2	ug/L	1	SW8260C	04/28/14 17:45	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 17:45	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 17:45	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.11  
 Sample Tag: OBG MW-1S Colocated  
 Collected Date/Time: 04/24/2014 09:20  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	Not detected	mg/L	0.002	E200.8	05/02/14 13:27	CCM	7440-38-2	
Barium	0.121	mg/L	0.005	E200.8	05/02/14 13:27	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	05/02/14 13:27	CCM	7439-92-1	
Zinc	0.005	mg/L	0.005	E200.8	05/02/14 13:27	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 18:05	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 18:05	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 18:05	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 18:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 18:05	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 18:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 18:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.11 (continued)

Sample Tag: OBG MW-1S Colocated

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 18:05	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:05	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 18:05	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.12  
 Sample Tag: OBG MW-7S  
 Collected Date/Time: 04/24/2014 13:00  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.007	mg/L	0.002	E200.8	05/02/14 13:29	CCM	7440-38-2	
Barium	0.080	mg/L	0.005	E200.8	05/02/14 13:29	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	05/02/14 13:29	CCM	7439-92-1	
Zinc	0.017	mg/L	0.005	E200.8	05/02/14 13:29	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 18:26	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 18:26	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 18:26	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 18:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 18:26	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 18:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 18:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.12 (continued)

Sample Tag: OBG MW-7S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 18:26	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:26	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 18:26	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.13  
 Sample Tag: OBG MW-7D  
 Collected Date/Time: 04/24/2014 14:00  
 Matrix: Groundwater  
 COC Reference: 73378

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.6	IR
3	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	05/02/14 11:40	CCM		
pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		

### Metals

Arsenic	0.008	mg/L	0.002	E200.8	05/02/14 13:45	CCM	7440-38-2	
Barium	0.081	mg/L	0.005	E200.8	05/02/14 13:45	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	05/02/14 13:45	CCM	7439-92-1	
Zinc	0.018	mg/L	0.005	E200.8	05/02/14 13:45	CCM	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 18:47	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 18:47	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 18:47	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 18:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 18:47	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 18:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 18:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	74-95-3	



# Analytical Laboratory Report

Lab Sample ID: S60808.13 (continued)

Sample Tag: OBG MW-7D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 18:47	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 18:47	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 18:47	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S60808.14  
 Sample Tag: TB  
 Collected Date/Time: 04/24/2014 00:01  
 Matrix: Liquid  
 COC Reference: 73380

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	5.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

### Extraction / Prep.

pH check for VOCs	<2	STD Units		N/A	04/29/14 10:17	LBR		
-------------------	----	-----------	--	-----	----------------	-----	--	--

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260C	04/28/14 19:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/28/14 19:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/28/14 19:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/28/14 19:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/28/14 19:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/28/14 19:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/28/14 19:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	106-93-4	



# Analytical Laboratory Report

Lab Sample ID: S60808.14 (continued)

Sample Tag: TB

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/28/14 19:07	WAT		
o-Xylene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/28/14 19:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/28/14 19:07	WAT	91-57-6	



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C.O.C. PAGE # 1 OF 2

73378

**REPORT TO**

**CHAIN OF CUSTODY RECORD**

**INVOICE TO**

CONTACT NAME: TONY FINCH  
 COMPANY: O'Brien & Gere Engineers, Inc.  
 ADDRESS: 37000 Grand River Ave.  
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335  
 PHONE NO.: 248 477 5701 FAX NO.: 248 477 5962 P.O. NO.: 11412566  
 E-MAIL ADDRESS: Anthony\_Finch@obg.com QUOTE NO.:

CONTACT NAME: SAME  
 COMPANY:  
 ADDRESS:  
 CITY: STATE: ZIP CODE:  
 PHONE NO.: E-MAIL ADDRESS:

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

PROJECT NO./NAME: RACER TRUST HELL SA GWS SAMPLER(S) - PLEASE PRINT/SIGN NAME: AS Finch  
 TURNAROUND TIME REQUIRED:  1 DAY  2 DAYS  3 DAYS  STANDARD  OTHER  
 DELIVERABLES REQUIRED:  STD  LEVEL II  LEVEL III  LEVEL IV  EDD  OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

# Containers & Preservatives	ANALYSIS										Certifications	
	None	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER					
												Certifications <input type="checkbox"/> OHIO VAP <input type="checkbox"/> Drinking Water <input type="checkbox"/> DoD <input type="checkbox"/> NPDES Project Locations <input type="checkbox"/> Detroit <input type="checkbox"/> New York <input type="checkbox"/> Other _____ Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives											
	DATE	TIME				None	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER					
60808.01	4/24/14	0800	OBG MW-3	GW	4		3	1								X	X
.02		0820	OBG MW-2S	GW	4		3	1								X	X
.03		0900	OBG MW-2D	GW	4		3	1								X	X
.04		0920	OBG MW-1S	GW	4		3	1								X	X
.05		1000	OBG MW-6S	GW	4		3	1								X	X
.06/.07		1000	OBG MW-6S MS/MSD	GW	8		6	2								X	X
.08		1030	OBG MW-6D	GW	4		3	1								X	X
.09	✓	1100	OBG MW-5	GW	4		3	1								X	X
.10			DUP	GW	4		3	1								X	X
.11	4/24/14	0920	OBG MW-1S Colocated	GW	4		3	1								X	X
.12	↓	1300	OBG MW-7S	GW	4		3	1								X	X
.13	↓	1400	OBG MW-7D	GW	4		3	1								X	X

VOCs  
 Total As, Ba, Pb, Zn  
 Dis. As, Ba, Pb, Zn

Free Filter in LAB  
 Filter in LAB

RELINQUISHED BY: [Signature] / OBG  Sampler DATE: 4/25/14 TIME: 1100  
 RECEIVED BY: [Signature] / Mer DATE: 4-25-14 TIME: 1100  
 RELINQUISHED BY: DATE: TIME:  
 RECEIVED BY: DATE: TIME:

RELINQUISHED BY: [Signature] / Mer DATE: 4-25-14 TIME: 12:45  
 RECEIVED BY: [Signature] / Baiter Ball DATE: 4/25/14 TIME: 12:45  
 SEAL NO. SEAL INTACT INITIALS NOTES: TEMP. ON ARRIVAL 5.6  
 YES  NO   
 SEAL NO. SEAL INTACT INITIALS  
 YES  NO



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C.O.C. PAGE # 2 OF 2

73380

**REPORT TO**

**CHAIN OF CUSTODY RECORD**

**INVOICE TO**

CONTACT NAME: Tony Finck  
 COMPANY: O'Brien + Gere Engineers, Inc.  
 ADDRESS: 37000 Grand River Ave  
 CITY: Farmington Hills STATE: MI ZIP CODE: 48335  
 PHONE NO.: 248 477 5701 FAX NO.: 248 477 5962 P.O. NO.: 11412566  
 E-MAIL ADDRESS: Anthony.Finck@obg.com QUOTE NO.:

CONTACT NAME: SAME  
 COMPANY:  
 ADDRESS:  
 CITY: STATE: ZIP CODE:  
 PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: HRIL GWS SAMPLER(S) - PLEASE PRINT/SIGN NAME: AJ Finch

TURNAROUND TIME REQUIRED  1 DAY  2 DAYS  3 DAYS  STANDARD  OTHER

DELIVERABLES REQUIRED  STD  LEVEL II  LEVEL III  LEVEL IV  EDD  OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID  
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives														
	DATE	TIME				NONE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER								
60808.14	-	-	TB		1															

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

*X VOCs 8260*

Certifications  
 OHIO VAP  Drinking Water  
 DoD  NPDES

Project Locations  
 Detroit  New York  
 Other \_\_\_\_\_

Special Instructions

RELINQUISHED BY: [Signature] 10/30  Sampler DATE: 9/25/14 TIME: 11:00  
 RECEIVED BY: [Signature] Mon DATE: 9/25/14 TIME: 11:00

RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

RELINQUISHED BY: [Signature] DATE: 9/25/14 TIME: 12:45  
 RECEIVED BY: [Signature] Mon DATE: 9/25/14 TIME: 12:45

SEAL NO. SEAL INTACT INITIALS  
 YES  NO

SEAL NO. SEAL INTACT INITIALS  
 YES  NO

NOTES: TEMP. ON ARRIVAL 5.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

*Exhibit C*

*Groundwater Analytical Data  
October 2014*



# Analytical Laboratory Report

Report ID: S63220.01(01)  
Generated on 10/23/2014

## Report to

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

Phone: 248-477-5701 FAX: 248-477-5962  
Email: Anthony.Finch@obg.com

## Report produced by

Merit Laboratories, Inc.  
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East Lansing, MI 48823

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## Report Summary

Lab Sample ID(s): S63220.01-S63220.21  
Project: RACER Site #1291 - Burton Parcel  
Collected Date: 10/14/2014 - 10/16/2014  
Submitted Date/Time: 10/17/2014 09:10  
Sampled by: Kevin Schneider  
P.O. #: 11311311

A handwritten signature in cursive script that reads "Maya Murshak".

Maya Murshak  
Technical Director



# Analytical Laboratory Report

## **General Report Notes**

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Results relate only to items tested as received by laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis were applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

## **Report Narrative**

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There is no additional narrative for this analytical report



# Analytical Laboratory Report

## Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

## Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

## Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



# Analytical Laboratory Report

## Method Summary

Method	Version
E200.8	EPA Method 200.8 Revision 5.4
N/A	Not Applicable
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW8260B	SW 846 Method 8260B Revision 2 December 1996



# Analytical Laboratory Report

## Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S63220.01	OBG-MW1S	Groundwater	10/14/2014 10:00
S63220.02	OBG-MW7S	Groundwater	10/14/2014 11:20
S63220.03	OBG-MW7D	Groundwater	10/14/2014 12:40
S63220.04	OBG-MW7D MS	Groundwater	10/14/2014 12:40
S63220.05	OBG-MW7D MSD	Groundwater	10/14/2014 12:40
S63220.06	OBG-MW2S	Groundwater	10/14/2014 14:15
S63220.07	OBG-MW2D	Groundwater	10/14/2014 15:20
S63220.08	OBG-MW6D	Groundwater	10/15/2014 10:35
S63220.09	OBG-MW5S	Groundwater	10/15/2014 12:15
S63220.10	OBG-MW5S Co-Located	Groundwater	10/15/2014 12:15
S63220.11	Equipment Blank-1	Quality Control	10/15/2014 14:30
S63220.12	OBG-OS-MW3	Groundwater	10/16/2014 09:25
S63220.13	OBG-OS-MW4	Groundwater	10/16/2014 10:20
S63220.14	OBG-OS-MW5	Groundwater	10/16/2014 11:20
S63220.15	OBG-OS-MW1	Groundwater	10/16/2014 12:45
S63220.16	OBG-OS-MW2	Groundwater	10/16/2014 13:40
S63220.17	OBG-MW3S	Groundwater	10/16/2014 14:45
S63220.18	DUP-1	Groundwater	10/16/2014 00:01
S63220.19	OBG-MW6S	Groundwater	10/16/2014 15:20
S63220.20	Field Blank-1	Quality Control	10/16/2014 15:30
S63220.21	Trip Blank-1	Quality Control	10/16/2014 00:01



# Analytical Laboratory Report

Lab Sample ID: S63220.01  
 Sample Tag: OBG-MW1S  
 Collected Date/Time: 10/14/2014 10:00  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic	0.004	mg/L	0.002	E200.8	10/23/14 11:17	JRH	7440-38-2	
Barium	0.147	mg/L	0.005	E200.8	10/23/14 11:17	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 11:17	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:17	JRH	7782-49-2	
Zinc	0.052	mg/L	0.005	E200.8	10/23/14 11:17	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 15:27	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 15:27	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 15:27	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 15:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 15:27	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 15:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 15:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.01 (continued)

Sample Tag: OBG-MW1S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 15:27	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:27	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 15:27	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.02  
 Sample Tag: OBG-MW7S  
 Collected Date/Time: 10/14/2014 11:20  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic, Dissolved	0.017	mg/L	0.002	E200.8	10/23/14 11:20	JRH	7440-38-2	
Barium, Dissolved	0.252	mg/L	0.005	E200.8	10/23/14 11:20	JRH	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/23/14 11:20	JRH	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	10/23/14 11:20	JRH	7782-49-2	
Zinc, Dissolved	0.070	mg/L	0.005	E200.8	10/23/14 11:20	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 15:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 15:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 15:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 15:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 15:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 15:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 15:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.02 (continued)

Sample Tag: OBG-MW7S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 15:49	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 15:49	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.03  
 Sample Tag: OBG-MW7D  
 Collected Date/Time: 10/14/2014 12:40  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic	0.033	mg/L	0.002	E200.8	10/23/14 11:36	JRH	7440-38-2	
Barium	0.096	mg/L	0.005	E200.8	10/23/14 11:36	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 11:36	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:36	JRH	7782-49-2	
Zinc	0.006	mg/L	0.005	E200.8	10/23/14 11:36	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 14:43	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 14:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 14:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 14:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 14:43	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 14:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 14:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.03 (continued)

Sample Tag: OBG-MW7D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 14:43	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 14:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 14:43	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.04  
 Sample Tag: OBG-MW7D MS  
 Collected Date/Time: 10/14/2014 12:40  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic	0.305	mg/L	0.002	E200.8	10/23/14 11:39	JRH	7440-38-2	
Barium	0.353	mg/L	0.005	E200.8	10/23/14 11:39	JRH	7440-39-3	
Lead	0.249	mg/L	0.003	E200.8	10/23/14 11:39	JRH	7439-92-1	
Selenium	0.261	mg/L	0.005	E200.8	10/23/14 11:39	JRH	7782-49-2	
Zinc	0.269	mg/L	0.005	E200.8	10/23/14 11:39	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	50	ug/L	10	SW8260B	10/22/14 19:51	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 19:51	WAT	67-64-1	1
Methyl iodide	48	ug/L	1	SW8260B	10/22/14 19:51	WAT	74-88-4	1
Carbon disulfide	46	ug/L	5	SW8260B	10/22/14 19:51	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	49	ug/L	5	SW8260B	10/22/14 19:51	WAT	1634-04-4	1
Acrylonitrile	50	ug/L	2	SW8260B	10/22/14 19:51	WAT	107-13-1	1
2-Butanone (MEK)	45	ug/L	25	SW8260B	10/22/14 19:51	WAT	78-93-3	1
Dichlorodifluoromethane	43	ug/L	5	SW8260B	10/22/14 19:51	WAT	75-71-8	1
Chloromethane	46	ug/L	5	SW8260B	10/22/14 19:51	WAT	74-87-3	1
Vinyl chloride	46	ug/L	1	SW8260B	10/22/14 19:51	WAT	75-01-4	1
Bromomethane	50	ug/L	5	SW8260B	10/22/14 19:51	WAT	74-83-9	1
Chloroethane	48	ug/L	5	SW8260B	10/22/14 19:51	WAT	75-00-3	1
Trichlorofluoromethane	49	ug/L	1	SW8260B	10/22/14 19:51	WAT	75-69-4	1
1,1-Dichloroethene	48	ug/L	1	SW8260B	10/22/14 19:51	WAT	75-35-4	1
Methylene chloride	48	ug/L	5	SW8260B	10/22/14 19:51	WAT	75-09-2	1
trans-1,2-Dichloroethene	49	ug/L	1	SW8260B	10/22/14 19:51	WAT	156-60-5	1
1,1-Dichloroethane	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	75-34-3	1
cis-1,2-Dichloroethene	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 19:51	WAT	109-99-9	1
Chloroform	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	67-66-3	1
Bromochloromethane	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	74-97-5	1
1,1,1-Trichloroethane	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	55	ug/L	50	SW8260B	10/22/14 19:51	WAT	108-10-1	1
2-Hexanone	50	ug/L	50	SW8260B	10/22/14 19:51	WAT	591-78-6	1
Carbon tetrachloride	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	56-23-5	1
Benzene	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	107-06-2	1
Trichloroethene	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	79-01-6	1
1,2-Dichloropropane	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	78-87-5	1

1-Spiked at 50ug/l



# Analytical Laboratory Report

Lab Sample ID: S63220.04 (continued)

Sample Tag: OBG-MW7D MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Bromodichloromethane	53	ug/L	1	SW8260B	10/22/14 19:51	WAT	75-27-4	1
Dibromomethane	51	ug/L	5	SW8260B	10/22/14 19:51	WAT	74-95-3	1
cis-1,3-Dichloropropene	53	ug/L	1	SW8260B	10/22/14 19:51	WAT	10061-01-5	1
Toluene	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	108-88-3	1
trans-1,3-Dichloropropene	48	ug/L	1	SW8260B	10/22/14 19:51	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	79-00-5	1
Tetrachloroethene	49	ug/L	1	SW8260B	10/22/14 19:51	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	110-57-6	1
Dibromochloromethane	54	ug/L	5	SW8260B	10/22/14 19:51	WAT	124-48-1	1
1,2-Dibromoethane	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	106-93-4	1
Chlorobenzene	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	53	ug/L	1	SW8260B	10/22/14 19:51	WAT	630-20-6	1
Ethylbenzene	52	ug/L	1	SW8260B	10/22/14 19:51	WAT	100-41-4	1
p,m-Xylene	102	ug/L	2	SW8260B	10/22/14 19:51	WAT		1
o-Xylene	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	95-47-6	1
Styrene	53	ug/L	1	SW8260B	10/22/14 19:51	WAT	100-42-5	1
Isopropylbenzene	52	ug/L	5	SW8260B	10/22/14 19:51	WAT	98-82-8	1
Bromoform	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	79-34-5	1
1,2,3-Trichloropropane	50	ug/L	1	SW8260B	10/22/14 19:51	WAT	96-18-4	1
n-Propylbenzene	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	108-86-1	1
1,3,5-Trimethylbenzene	52	ug/L	1	SW8260B	10/22/14 19:51	WAT	108-67-8	1
tert-Butylbenzene	52	ug/L	1	SW8260B	10/22/14 19:51	WAT	98-06-6	1
1,2,4-Trimethylbenzene	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	95-63-6	1
sec-Butylbenzene	52	ug/L	1	SW8260B	10/22/14 19:51	WAT	135-98-8	1
p-Isopropyltoluene	53	ug/L	5	SW8260B	10/22/14 19:51	WAT	99-87-6	1
1,3-Dichlorobenzene	52	ug/L	1	SW8260B	10/22/14 19:51	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	SW8260B	10/22/14 19:51	WAT	95-50-1	1
1,2,3-Trimethylbenzene	52	ug/L	1	SW8260B	10/22/14 19:51	WAT	526-73-8	1
n-Butylbenzene	53	ug/L	1	SW8260B	10/22/14 19:51	WAT	104-51-8	1
Hexachloroethane	48	ug/L	5	SW8260B	10/22/14 19:51	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	50	ug/L	5	SW8260B	10/22/14 19:51	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	SW8260B	10/22/14 19:51	WAT	120-82-1	1
1,2,3-Trichlorobenzene	53	ug/L	5	SW8260B	10/22/14 19:51	WAT	87-61-6	1
Naphthalene	56	ug/L	5	SW8260B	10/22/14 19:51	WAT	91-20-3	1
2-Methylnaphthalene	48	ug/L	5	SW8260B	10/22/14 19:51	WAT	91-57-6	1

1-Spiked at 50ug/l



# Analytical Laboratory Report

Lab Sample ID: S63220.05  
 Sample Tag: OBG-MW7D MSD  
 Collected Date/Time: 10/14/2014 12:40  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic	0.302	mg/L	0.002	E200.8	10/23/14 11:42	JRH	7440-38-2	
Barium	0.356	mg/L	0.005	E200.8	10/23/14 11:42	JRH	7440-39-3	
Lead	0.246	mg/L	0.003	E200.8	10/23/14 11:42	JRH	7439-92-1	
Selenium	0.266	mg/L	0.005	E200.8	10/23/14 11:42	JRH	7782-49-2	
Zinc	0.267	mg/L	0.005	E200.8	10/23/14 11:42	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	51	ug/L	10	SW8260B	10/22/14 20:13	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 20:13	WAT	67-64-1	1
Methyl iodide	50	ug/L	1	SW8260B	10/22/14 20:13	WAT	74-88-4	1
Carbon disulfide	49	ug/L	5	SW8260B	10/22/14 20:13	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	51	ug/L	5	SW8260B	10/22/14 20:13	WAT	1634-04-4	1
Acrylonitrile	51	ug/L	2	SW8260B	10/22/14 20:13	WAT	107-13-1	1
2-Butanone (MEK)	45	ug/L	25	SW8260B	10/22/14 20:13	WAT	78-93-3	1
Dichlorodifluoromethane	45	ug/L	5	SW8260B	10/22/14 20:13	WAT	75-71-8	1
Chloromethane	47	ug/L	5	SW8260B	10/22/14 20:13	WAT	74-87-3	1
Vinyl chloride	48	ug/L	1	SW8260B	10/22/14 20:13	WAT	75-01-4	1
Bromomethane	51	ug/L	5	SW8260B	10/22/14 20:13	WAT	74-83-9	1
Chloroethane	50	ug/L	5	SW8260B	10/22/14 20:13	WAT	75-00-3	1
Trichlorofluoromethane	51	ug/L	1	SW8260B	10/22/14 20:13	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	SW8260B	10/22/14 20:13	WAT	75-35-4	1
Methylene chloride	49	ug/L	5	SW8260B	10/22/14 20:13	WAT	75-09-2	1
trans-1,2-Dichloroethene	51	ug/L	1	SW8260B	10/22/14 20:13	WAT	156-60-5	1
1,1-Dichloroethane	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	75-34-3	1
cis-1,2-Dichloroethene	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 20:13	WAT	109-99-9	1
Chloroform	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	67-66-3	1
Bromochloromethane	51	ug/L	1	SW8260B	10/22/14 20:13	WAT	74-97-5	1
1,1,1-Trichloroethane	53	ug/L	1	SW8260B	10/22/14 20:13	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	56	ug/L	50	SW8260B	10/22/14 20:13	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 20:13	WAT	591-78-6	1
Carbon tetrachloride	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	56-23-5	1
Benzene	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	71-43-2	1
1,2-Dichloroethane	51	ug/L	1	SW8260B	10/22/14 20:13	WAT	107-06-2	1
Trichloroethene	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	SW8260B	10/22/14 20:13	WAT	78-87-5	1

1-Spiked at 50ug/l



# Analytical Laboratory Report

Lab Sample ID: S63220.05 (continued)

Sample Tag: OBG-MW7D MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Bromodichloromethane	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	75-27-4	1
Dibromomethane	52	ug/L	5	SW8260B	10/22/14 20:13	WAT	74-95-3	1
cis-1,3-Dichloropropene	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	10061-01-5	1
Toluene	51	ug/L	1	SW8260B	10/22/14 20:13	WAT	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	SW8260B	10/22/14 20:13	WAT	10061-02-6	1
1,1,2-Trichloroethane	51	ug/L	1	SW8260B	10/22/14 20:13	WAT	79-00-5	1
Tetrachloroethene	50	ug/L	1	SW8260B	10/22/14 20:13	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	110-57-6	1
Dibromochloromethane	55	ug/L	5	SW8260B	10/22/14 20:13	WAT	124-48-1	1
1,2-Dibromoethane	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	106-93-4	1
Chlorobenzene	51	ug/L	1	SW8260B	10/22/14 20:13	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	56	ug/L	1	SW8260B	10/22/14 20:13	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	SW8260B	10/22/14 20:13	WAT	100-41-4	1
p,m-Xylene	106	ug/L	2	SW8260B	10/22/14 20:13	WAT		1
o-Xylene	53	ug/L	1	SW8260B	10/22/14 20:13	WAT	95-47-6	1
Styrene	55	ug/L	1	SW8260B	10/22/14 20:13	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	SW8260B	10/22/14 20:13	WAT	98-82-8	1
Bromoform	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	96-18-4	1
n-Propylbenzene	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	103-65-1	1
Bromobenzene	53	ug/L	1	SW8260B	10/22/14 20:13	WAT	108-86-1	1
1,3,5-Trimethylbenzene	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	108-67-8	1
tert-Butylbenzene	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	98-06-6	1
1,2,4-Trimethylbenzene	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	95-63-6	1
sec-Butylbenzene	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	135-98-8	1
p-Isopropyltoluene	55	ug/L	5	SW8260B	10/22/14 20:13	WAT	99-87-6	1
1,3-Dichlorobenzene	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	541-73-1	1
1,4-Dichlorobenzene	52	ug/L	1	SW8260B	10/22/14 20:13	WAT	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	SW8260B	10/22/14 20:13	WAT	95-50-1	1
1,2,3-Trimethylbenzene	53	ug/L	1	SW8260B	10/22/14 20:13	WAT	526-73-8	1
n-Butylbenzene	54	ug/L	1	SW8260B	10/22/14 20:13	WAT	104-51-8	1
Hexachloroethane	52	ug/L	5	SW8260B	10/22/14 20:13	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	53	ug/L	5	SW8260B	10/22/14 20:13	WAT	96-12-8	1
1,2,4-Trichlorobenzene	56	ug/L	5	SW8260B	10/22/14 20:13	WAT	120-82-1	1
1,2,3-Trichlorobenzene	57	ug/L	5	SW8260B	10/22/14 20:13	WAT	87-61-6	1
Naphthalene	59	ug/L	5	SW8260B	10/22/14 20:13	WAT	91-20-3	1
2-Methylnaphthalene	57	ug/L	5	SW8260B	10/22/14 20:13	WAT	91-57-6	1

1-Spiked at 50ug/l



# Analytical Laboratory Report

Lab Sample ID: S63220.06  
 Sample Tag: OBG-MW2S  
 Collected Date/Time: 10/14/2014 14:15  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic	0.034	mg/L	0.002	E200.8	10/23/14 11:22	JRH	7440-38-2	
Barium	0.175	mg/L	0.005	E200.8	10/23/14 11:22	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 11:22	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:22	JRH	7782-49-2	
Zinc	0.056	mg/L	0.005	E200.8	10/23/14 11:22	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 16:11	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 16:11	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 16:11	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 16:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 16:11	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 16:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 16:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.06 (continued)

Sample Tag: OBG-MW2S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 16:11	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:11	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 16:11	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.07  
 Sample Tag: OBG-MW2D  
 Collected Date/Time: 10/14/2014 15:20  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic	0.042	mg/L	0.002	E200.8	10/23/14 11:25	JRH	7440-38-2	
Barium	0.313	mg/L	0.005	E200.8	10/23/14 11:25	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 11:25	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:25	JRH	7782-49-2	
Zinc	0.008	mg/L	0.005	E200.8	10/23/14 11:25	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 16:33	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 16:33	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 16:33	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 16:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 16:33	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 16:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 16:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.07 (continued)

Sample Tag: OBG-MW2D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 16:33	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:33	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 16:33	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.08  
 Sample Tag: OBG-MW6D  
 Collected Date/Time: 10/15/2014 10:35  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic	0.016	mg/L	0.002	E200.8	10/23/14 11:28	JRH	7440-38-2	
Barium	0.080	mg/L	0.005	E200.8	10/23/14 11:28	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 11:28	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:28	JRH	7782-49-2	
Zinc	0.011	mg/L	0.005	E200.8	10/23/14 11:28	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 16:55	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 16:55	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 16:55	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 16:55	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 16:55	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 16:55	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 16:55	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.08 (continued)

Sample Tag: OBG-MW6D

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 16:55	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 16:55	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 16:55	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.09  
 Sample Tag: OBG-MW5S  
 Collected Date/Time: 10/15/2014 12:15  
 Matrix: Groundwater  
 COC Reference: 75000

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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**Extraction / Prep.**

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

**Metals**

Arsenic, Dissolved	0.014	mg/L	0.002	E200.8	10/23/14 11:31	JRH	7440-38-2	
Barium, Dissolved	1.42	mg/L	0.005	E200.8	10/23/14 11:31	JRH	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/23/14 11:31	JRH	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	10/23/14 11:31	JRH	7782-49-2	
Zinc, Dissolved	0.030	mg/L	0.005	E200.8	10/23/14 11:31	JRH	7440-66-6	

**Organics - Volatiles**

**Volatile Organics - DEQ List**

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 17:17	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 17:17	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 17:17	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 17:17	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 17:17	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 17:17	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 17:17	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.09 (continued)

Sample Tag: OBG-MW5S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 17:17	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	541-73-1	
1,4-Dichlorobenzene	1	ug/L	1	SW8260B	10/22/14 17:17	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:17	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 17:17	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.10  
 Sample Tag: OBG-MW5S Co-Located  
 Collected Date/Time: 10/15/2014 12:15  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic, Dissolved	0.012	mg/L	0.002	E200.8	10/23/14 11:34	JRH	7440-38-2	
Barium, Dissolved	1.47	mg/L	0.005	E200.8	10/23/14 11:34	JRH	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/23/14 11:34	JRH	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	10/23/14 11:34	JRH	7782-49-2	
Zinc, Dissolved	0.036	mg/L	0.005	E200.8	10/23/14 11:34	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 17:39	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 17:39	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 17:39	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 17:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 17:39	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 17:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 17:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.10 (continued)

Sample Tag: OBG-MW5S Co-Located

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 17:39	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 17:39	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 17:39	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.11  
Sample Tag: Equipment Blank-1  
Collected Date/Time: 10/15/2014 14:30  
Matrix: Quality Control  
COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

### Metals

Arsenic	Not detected	mg/L	0.002	E200.8	10/23/14 11:08	JRH	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	10/23/14 11:08	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 11:08	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:08	JRH	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/23/14 11:08	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 18:01	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 18:01	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 18:01	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 18:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 18:01	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 18:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 18:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.11 (continued)

Sample Tag: Equipment Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 18:01	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:01	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 18:01	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.12  
 Sample Tag: OBG-OS-MW3  
 Collected Date/Time: 10/16/2014 09:25  
 Matrix: Groundwater  
 COC Reference: 75000

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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**Extraction / Prep.**

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/23/14 10:22	LBR		

**Metals**

Arsenic	0.008	mg/L	0.002	E200.8	10/23/14 11:53	JRH	7440-38-2	
Barium	0.774	mg/L	0.005	E200.8	10/23/14 11:53	JRH	7440-39-3	
Lead	0.009	mg/L	0.003	E200.8	10/23/14 11:53	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:53	JRH	7782-49-2	
Zinc	0.008	mg/L	0.005	E200.8	10/23/14 11:53	JRH	7440-66-6	

**Organics - Volatiles**

**Volatile Organics - DEQ List**

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 18:23	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 18:23	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 18:23	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 18:23	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 18:23	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 18:23	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 18:23	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.12 (continued)

Sample Tag: OBG-OS-MW3

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 18:23	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 18:23	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/22/14 18:23	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.13  
 Sample Tag: OBG-OS-MW4  
 Collected Date/Time: 10/16/2014 10:20  
 Matrix: Groundwater  
 COC Reference: 75000

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/20/14 10:20	LBR		

### Metals

Arsenic	0.003	mg/L	0.002	E200.8	10/23/14 11:56	JRH	7440-38-2	
Barium	1.34	mg/L	0.005	E200.8	10/23/14 11:56	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 11:56	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:56	JRH	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/23/14 11:56	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	50	SW8260B	10/22/14 19:29	WAT	60-29-7	Y
Acetone	Not detected	ug/L	250	SW8260B	10/22/14 19:29	WAT	67-64-1	Y
Methyl iodide	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	74-88-4	Y
Carbon disulfide	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	75-15-0	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	1634-04-4	Y
Acrylonitrile	Not detected	ug/L	10	SW8260B	10/22/14 19:29	WAT	107-13-1	Y
2-Butanone (MEK)	Not detected	ug/L	130	SW8260B	10/22/14 19:29	WAT	78-93-3	Y
Dichlorodifluoromethane	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	75-71-8	Y
Chloromethane	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	74-87-3	Y
Vinyl chloride	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	75-01-4	Y
Bromomethane	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	74-83-9	Y
Chloroethane	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	75-00-3	Y
Trichlorofluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	75-69-4	Y
1,1-Dichloroethene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	75-35-4	Y
Methylene chloride	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	75-09-2	Y
trans-1,2-Dichloroethene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	156-60-5	Y
1,1-Dichloroethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	75-34-3	Y
cis-1,2-Dichloroethene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	156-59-2	Y
Tetrahydrofuran	Not detected	ug/L	450	SW8260B	10/22/14 19:29	WAT	109-99-9	Y
Chloroform	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	67-66-3	Y
Bromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	74-97-5	Y
1,1,1-Trichloroethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	71-55-6	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	250	SW8260B	10/22/14 19:29	WAT	108-10-1	Y
2-Hexanone	Not detected	ug/L	250	SW8260B	10/22/14 19:29	WAT	591-78-6	Y
Carbon tetrachloride	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	56-23-5	Y
Benzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	71-43-2	Y
1,2-Dichloroethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	107-06-2	Y
Trichloroethene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	79-01-6	Y
1,2-Dichloropropane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	78-87-5	Y

Y-Elevated reporting limit due to high target concentration



# Analytical Laboratory Report

Lab Sample ID: S63220.13 (continued)

Sample Tag: OBG-OS-MW4

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Bromodichloromethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	75-27-4	Y
Dibromomethane	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	74-95-3	Y
cis-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	10061-01-5	Y
Toluene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	108-88-3	Y
trans-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	10061-02-6	Y
1,1,2-Trichloroethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	79-00-5	Y
Tetrachloroethene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	127-18-4	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	110-57-6	Y
Dibromochloromethane	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	124-48-1	Y
1,2-Dibromoethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	106-93-4	Y
Chlorobenzene	7	ug/L	5	SW8260B	10/22/14 19:29	WAT	108-90-7	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	630-20-6	Y
Ethylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	100-41-4	Y
p,m-Xylene	Not detected	ug/L	10	SW8260B	10/22/14 19:29	WAT		Y
o-Xylene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	95-47-6	Y
Styrene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	100-42-5	Y
Isopropylbenzene	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	98-82-8	Y
Bromoform	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	75-25-2	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	79-34-5	Y
1,2,3-Trichloropropane	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	96-18-4	Y
n-Propylbenzene	10	ug/L	5	SW8260B	10/22/14 19:29	WAT	103-65-1	Y
Bromobenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	108-86-1	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	108-67-8	Y
tert-Butylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	98-06-6	Y
1,2,4-Trimethylbenzene	6	ug/L	5	SW8260B	10/22/14 19:29	WAT	95-63-6	Y
sec-Butylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	135-98-8	Y
p-Isopropyltoluene	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	99-87-6	Y
1,3-Dichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	541-73-1	Y
1,4-Dichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	106-46-7	Y
1,2-Dichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	95-50-1	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	526-73-8	Y
n-Butylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 19:29	WAT	104-51-8	Y
Hexachloroethane	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	67-72-1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	96-12-8	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	120-82-1	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	30	SW8260B	10/22/14 19:29	WAT	87-61-6	Y
Naphthalene	130	ug/L	30	SW8260B	10/22/14 19:29	WAT	91-20-3	Y
2-Methylnaphthalene	40	ug/L	30	SW8260B	10/22/14 19:29	WAT	91-57-6	Y

Y-Elevated reporting limit due to high target concentration



# Analytical Laboratory Report

Lab Sample ID: S63220.14  
 Sample Tag: OBG-OS-MW5  
 Collected Date/Time: 10/16/2014 11:20  
 Matrix: Groundwater  
 COC Reference: 74996

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/20/14 10:20	LBR		

### Metals

Arsenic	0.002	mg/L	0.002	E200.8	10/23/14 11:59	JRH	7440-38-2	
Barium	2.16	mg/L	0.005	E200.8	10/23/14 11:59	JRH	7440-39-3	
Lead	0.021	mg/L	0.003	E200.8	10/23/14 11:59	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:59	JRH	7782-49-2	
Zinc	0.014	mg/L	0.005	E200.8	10/23/14 11:59	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/22/14 15:05	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/22/14 15:05	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/22/14 15:05	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/22/14 15:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/22/14 15:05	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/22/14 15:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/22/14 15:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.14 (continued)

Sample Tag: OBG-OS-MW5

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	106-93-4	
Chlorobenzene	8	ug/L	1	SW8260B	10/22/14 15:05	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/22/14 15:05	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	75-25-2	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	96-18-4	
n-Propylbenzene	1	ug/L	1	SW8260B	10/22/14 15:05	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	541-73-1	
1,4-Dichlorobenzene	3	ug/L	1	SW8260B	10/22/14 15:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/22/14 15:05	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/22/14 15:05	WAT	87-61-6	
Naphthalene	10	ug/L	5	SW8260B	10/22/14 15:05	WAT	91-20-3	
2-Methylnaphthalene	6	ug/L	5	SW8260B	10/22/14 15:05	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.15  
 Sample Tag: OBG-OS-MW1  
 Collected Date/Time: 10/16/2014 12:45  
 Matrix: Groundwater  
 COC Reference: 74996

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/20/14 10:20	LBR		

### Metals

Arsenic	0.028	mg/L	0.002	E200.8	10/23/14 12:02	JRH	7440-38-2	
Barium	0.899	mg/L	0.005	E200.8	10/23/14 12:02	JRH	7440-39-3	
Lead	0.006	mg/L	0.003	E200.8	10/23/14 12:02	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 12:02	JRH	7782-49-2	
Zinc	0.008	mg/L	0.005	E200.8	10/23/14 12:02	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/17/14 17:45	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/17/14 17:45	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/17/14 17:45	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/17/14 17:45	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/17/14 17:45	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/17/14 17:45	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/17/14 17:45	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.15 (continued)

Sample Tag: OBG-OS-MW1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/14 17:45	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 17:45	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/17/14 17:45	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.16  
 Sample Tag: OBG-OS-MW2  
 Collected Date/Time: 10/16/2014 13:40  
 Matrix: Groundwater  
 COC Reference: 74996

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/20/14 10:20	LBR		

### Metals

Arsenic	0.064	mg/L	0.002	E200.8	10/23/14 12:04	JRH	7440-38-2	
Barium	0.283	mg/L	0.005	E200.8	10/23/14 12:04	JRH	7440-39-3	
Lead	0.005	mg/L	0.003	E200.8	10/23/14 12:04	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 12:04	JRH	7782-49-2	
Zinc	0.032	mg/L	0.005	E200.8	10/23/14 12:04	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/17/14 18:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/17/14 18:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/17/14 18:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/17/14 18:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/17/14 18:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/17/14 18:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/17/14 18:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.16 (continued)

Sample Tag: OBG-OS-MW2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/14 18:07	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/17/14 18:07	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.17  
 Sample Tag: OBG-MW3S  
 Collected Date/Time: 10/16/2014 14:45  
 Matrix: Groundwater  
 COC Reference: 74996

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/20/14 10:20	LBR		

### Metals

Arsenic	0.005	mg/L	0.002	E200.8	10/23/14 12:07	JRH	7440-38-2	
Barium	0.159	mg/L	0.005	E200.8	10/23/14 12:07	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 12:07	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 12:07	JRH	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/23/14 12:07	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/17/14 18:29	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/17/14 18:29	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/17/14 18:29	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/17/14 18:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/17/14 18:29	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/17/14 18:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/17/14 18:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.17 (continued)

Sample Tag: OBG-MW3S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/14 18:29	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:29	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/17/14 18:29	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.18  
 Sample Tag: DUP-1  
 Collected Date/Time: 10/16/2014 00:01  
 Matrix: Groundwater  
 COC Reference: 74996

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/20/14 10:20	LBR		

### Metals

Arsenic	0.005	mg/L	0.002	E200.8	10/23/14 12:10	JRH	7440-38-2	
Barium	0.160	mg/L	0.005	E200.8	10/23/14 12:10	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 12:10	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 12:10	JRH	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/23/14 12:10	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/17/14 18:51	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/17/14 18:51	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/17/14 18:51	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/17/14 18:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/17/14 18:51	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/17/14 18:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/17/14 18:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.18 (continued)

Sample Tag: DUP-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/14 18:51	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 18:51	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/17/14 18:51	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.19  
 Sample Tag: OBG-MW6S  
 Collected Date/Time: 10/16/2014 15:20  
 Matrix: Groundwater  
 COC Reference: 74996

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/20/14 10:20	LBR		

### Metals

Arsenic	0.015	mg/L	0.002	E200.8	10/23/14 12:13	JRH	7440-38-2	
Barium	0.197	mg/L	0.005	E200.8	10/23/14 12:13	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 12:13	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 12:13	JRH	7782-49-2	
Zinc	0.006	mg/L	0.005	E200.8	10/23/14 12:13	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/17/14 19:13	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/17/14 19:13	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/17/14 19:13	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/17/14 19:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/17/14 19:13	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/17/14 19:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/17/14 19:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.19 (continued)

Sample Tag: OBG-MW6S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/14 19:13	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:13	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/17/14 19:13	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.20  
 Sample Tag: Field Blank-1  
 Collected Date/Time: 10/16/2014 15:30  
 Matrix: Quality Control  
 COC Reference: 74996

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.8	IR
1	125ml Plastic	HNO3	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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### Extraction / Prep.

Metal Digestion	Completed			SW3015A	10/23/14 09:00	JRH		
pH check for VOCs	<2	STD Units		N/A	10/20/14 10:20	LBR		

### Metals

Arsenic	Not detected	mg/L	0.002	E200.8	10/23/14 11:11	JRH	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	10/23/14 11:11	JRH	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/23/14 11:11	JRH	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/23/14 11:11	JRH	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/23/14 11:11	JRH	7440-66-6	

### Organics - Volatiles

#### Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	10/17/14 19:36	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/17/14 19:36	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/17/14 19:36	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/17/14 19:36	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/17/14 19:36	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/17/14 19:36	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/17/14 19:36	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	75-27-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.20 (continued)

Sample Tag: Field Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Dibromomethane	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/14 19:36	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:36	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/17/14 19:36	WAT	91-57-6	



# Analytical Laboratory Report

Lab Sample ID: S63220.21  
 Sample Tag: Trip Blank-1  
 Collected Date/Time: 10/16/2014 00:01  
 Matrix: Quality Control  
 COC Reference: 74996

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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**Extraction / Prep.**

pH check for VOCs <2 STD Units N/A 10/20/14 10:25 LBR

**Organics - Volatiles**

**Volatile Organics - DEQ List**

Diethyl ether	Not detected	ug/L	10	SW8260B	10/17/14 19:57	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	10/17/14 19:57	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	10/17/14 19:57	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	10/17/14 19:57	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	10/17/14 19:57	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	10/17/14 19:57	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	10/17/14 19:57	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	106-93-4	



# Analytical Laboratory Report

Lab Sample ID: S63220.21 (continued)

Sample Tag: Trip Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics - DEQ List (continued)</b>								
Chlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	10/17/14 19:57	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	10/17/14 19:57	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	10/17/14 19:57	WAT	91-57-6	



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C.O.C. PAGE # 1 OF 2

75000

**REPORT TO**

**CHAIN OF CUSTODY RECORD**

**INVOICE TO**

CONTACT NAME Tony Finch  
 COMPANY O'Brien & Gere  
 ADDRESS 37000 Grand River  
 CITY Farmington Hills STATE MI ZIP CODE 48335  
 PHONE NO. 248-477-5701 FAX NO. 248-477-5762 P.O. NO. \_\_\_\_\_  
 E-MAIL ADDRESS Anthony.Finch@obg.com QUOTE NO. \_\_\_\_\_

CONTACT NAME SAME  
 COMPANY \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_ E-MAIL ADDRESS \_\_\_\_\_

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

PROJECT NO./NAME RACER SNE #1291 - Burton Parcel SAMPLER(S) - PLEASE PRINT/SIGN NAME Kun Sander K SK  
 TURNAROUND TIME REQUIRED  1 DAY  2 DAYS  3 DAYS  STANDARD  OTHER \_\_\_\_\_  
 DELIVERABLES REQUIRED  STD  LEVEL II  LEVEL III  LEVEL IV  EDD  OTHER \_\_\_\_\_

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID  
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

# Containers & Preservatives

Certifications  
 OHIO VAP  Drinking Water  
 DoD  NPDES  
 Project Locations  
 Detroit  New York  
 Other \_\_\_\_\_  
 Special Instructions \_\_\_\_\_

MERIT LAB NO. FOR LAB USE ONLY	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	VOCs	TOTAL As, Ba, Pb, Se, Zn	Dissolved As, Ba, Pb, Se, Zn								
	DATE	TIME																					
63220.01	10/14/14	1000	OBG-MW 1S	GW	4		3	1					X	X									
.02		1120	OBG-MW 7S										X		X								
.03		1240	OBG-MW 7D										X	X									
.04/05		1240	OBG-MW 7D (MS/MSD)		8		6	2					X	X									
.06		1415	OBG-MW 2S		4		3	1					X	X									
.07		1520	OBG-MW 2D										X	X									
.08	10/15/14	1035	OBG-MW 6D										X	X									
.09		1215	OBG-MW 5S										X		X								
.10		1215	OBG-MW 5S Co-LOCATED										X		X								
.11		1430	Equipment Blank-1	QC									X	X									
.12	10/16/14	925	OBG-OS-MW 3	GW									X	X									
.13		1020	OBG-OS-MW 4										X	X									

RELINQUISHED BY: K SK OBG  Sampler DATE 10/17/14 TIME 910  
 RECEIVED BY: \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RECEIVED BY: Kevin [Signature] DATE 10/17/14 TIME 910  
 SEAL NO. SEAL INTACT YES  NO  INITIALS \_\_\_\_\_ NOTES: TEMP. ON ARRIVAL 58  
 SEAL NO. SEAL INTACT YES  NO  INITIALS \_\_\_\_\_

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE



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 Phone (517) 332-0167 Fax (517) 332-4034  
 www.meritlabs.com

C.O.C. PAGE # 2 OF 2

74996

**REPORT TO**

**CHAIN OF CUSTODY RECORD**

**INVOICE TO**

CONTACT NAME **Tony Finch**  
 COMPANY **O'Brien + Gere**  
 ADDRESS **3700 Grand River**  
 CITY **Farmington Hills** STATE **Mi** ZIP CODE **48335**  
 PHONE NO. **248-477-5701** FAX NO. **248-477-5962** P.O. NO. \_\_\_\_\_  
 E-MAIL ADDRESS **Anthony.finch@OBG.com** QUOTE NO. \_\_\_\_\_

CONTACT NAME  SAME  
 COMPANY \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_  
 PHONE NO. \_\_\_\_\_ E-MAIL ADDRESS \_\_\_\_\_

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

PROJECT NO./NAME **RAZER SUE # 1291 - Burton Parcel** SAMPLER(S) - PLEASE PRINT/SIGN NAME **Kevin Sennedel**  
 TURNAROUND TIME REQUIRED  1 DAY  2 DAYS  3 DAYS  STANDARD  OTHER \_\_\_\_\_  
 DELIVERABLES REQUIRED  STD  LEVEL II  LEVEL III  LEVEL IV  EDD  OTHER \_\_\_\_\_

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID  
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

# Containers & Preservatives

Certifications  
 OHIO VAP  Drinking Water  
 DoD  NPDES  
 Project Locations  
 Detroit  New York  
 Other \_\_\_\_\_  
 Special Instructions

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	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	VOCs	TOTAL As, Ba, Pb, Se, Zn	Dissolved As, Ba, Pb, Se, Zn							
	DATE	TIME																				
63220.14	10/16/17	1120	OBG-OS-MW5	GW	4		3	1					X	X								
.15		1245	OBG-OS-MW1										X	X								
.16		1340	OBG-OS-MW2										X	X								
.17		1445	OBG-MW3S										X	X								
.18		-	DUP-1										X	X								
.19		1520	OBG-MW6S										X	X								
.20		1530	Field Blank-1	QC									X	X								
.21		-	Trip Blank-1	QC			2						X									

RELINQUISHED BY: **[Signature]** OBG  Sampler DATE **10/17/14** TIME **9:10**  
 RECEIVED BY: \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RELINQUISHED BY: \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_  
 RECEIVED BY: **[Signature]** DATE **10/17/14** TIME **9:10**  
 SEAL NO. SEAL INTACT YES  NO  INITIALS \_\_\_\_\_  
 SEAL NO. SEAL INTACT YES  NO  INITIALS \_\_\_\_\_  
 NOTES: TEMP. ON ARRIVAL **5.8**

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE