December 19, 2016

Mr. James E. Innes
Michigan Department of Environmental Quality
Remediation and Redevelopment Division
Constitution Hall
525 West Allegan Street
Lansing, MI 48909

RE: 2016 Annual Groundwater Sampling Report
RACER Trust Hemphill Road Industrial Land, Burton, Michigan
FILE: 15388 / 62653

Dear **Mr. Innes:**

This letter serves as a Summary Report for the semiannual 2016 groundwater sampling events conducted in April and October 2016 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.

GROUNDWATER SAMPLING

The semiannual 2016 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 the June 2011 Groundwater Investigation Report for the Site, based on the distance between wells and the Site geology and previous waste disposal, 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 and waste disposal at the Site.

Groundwater elevations are depicted on **Figure 2** (April 2016) and **Figure 3** (October 2016).

Groundwater samples for the semiannual 2016 sampling events were collected on April 13 and 14, 2016 (1st SA) and October 20 and 21, 2016 (2nd SA). The 1st SA event samples and the 2nd SA event samples were collected from 9 on site monitoring wells and 5 off site monitoring wells. The 9 on site monitoring wells are: OBG MW-1S, OBG MW-2S, OBG MW-2D, OBG MW-3S, OBG MW-5S, OBG MW-6S, OBG MW-6D, OBG MW-7S and OBG MW-7D. The 5 off site monitoring wells are: OBG OS MW-1, OBG OS MW-2, OBG OS MW-3, OBG OS MW-4 and OBG OS MW-5. 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 or wells OBG MW-8, OBG MW-9, OBG MW-10, and OBG MW-11 as these were installed in June 2016 for LNAPL assessment. Due to the highly viscous LNAPL heavily coating the interface probe of the measuring instrument, it

was difficult to acquire an accurate measurement of the LNAPL thickness. 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, selenium and zinc) by EPA Method 200.8.

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

FIRST SEMIANNUAL SAMPLING EVENT- APRIL 2016

Analytical results for the 1st SA event (April 2016) indicate VOCs were not detected above method detection limits except at offsite monitoring wells OBG OS MW-4 and OBG OS MW-5. Monitoring well OBG OS MW-4 had the following detections above method detection limits:

- chlorobenzene (8 µg/l), ethylbenzene (2 µg/l), p,m-Xylene (5 µg/l), o-Xylene (2 µg/l), n-Propylbenzene (13 µg/l), 1,2,4-trimethylbenzene (7 µg/l), sec-Butylbenzene (3 µg/l), 1,4-Dichlorobenzene (6 µg/l), 1,3,5-trimethylbenzene (1 µg/l), 1,2,4- trimethylbenzene (7 µg/l), 1,2,3- trimethylbenzene (4 µg/l) isopropylbenzene (8 µg/l), n-butylbenzene (2 µg/l), naphthalene (129 µg/l) and 2-Methylnaphthalene (75 µg/l).

Monitoring well OBG OS MW-5 had the following detections: chlorobenzene (11 µg/l), n-Propylbenzene (1 µg/l), 1,4-Dichlorobenzene (5 µg/l) and 2-Methylnaphthalene (6 µg/l).

These concentrations are below the MDEQ Part 201 Generic Residential Drinking Water criteria. The analytical results for the 1st SA event are summarized on **Table 3** and the groundwater analytical data sheets are included in **Exhibit B**. A figure depicting the April 2016 groundwater results above MDEQ criteria is included as **Figure 4**.

Groundwater analytical results for inorganic analysis indicate selenium and zinc were not detected above the method detection limits or detections were below the MDEQ Part 201 Generic Residential Drinking Water criteria. Turbidity levels at well OBG-MW7S, OBG OS MW-1 and OBG OS MW-2 did not stabilize below 20 NTUs, therefore, a groundwater sample for dissolved metals analysis was collected and analyzed. Historically, turbidity levels at well OBG MW-7S have been above 20 NTUs.

Analytical results for arsenic, barium and lead are as follows:

- Monitoring wells with groundwater concentrations of total arsenic (total unless otherwise noted) above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (10 µg/l) include: onsite wells OBG MW-2S (15 µg/l), OBG MW-2D (34 µg/l), OBG MW-6S (12 µg/l), OBG MW- 6D (14 µg/l), OBG MW-7S (dissolved -11 µg/l), OBG MW-7D (33 µg/l), and offsite wells OBG OS MW-1 (dissolved 33 µg/l), OBG OS MW-2 (dissolved- 49 µg/l) and OBG OS MW-3 (17 µg/l).
- 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: offsite wells OBG OS MW-4 (5 µg/l) and OBG OS MW-5 (5 µg/l).
- Offsite monitoring well OBG OS MW-5 exhibited a concentration of total barium (2,240 µg/l) above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (2,000 µg/l).

SECOND SEMIANNUAL SAMPLING EVENT- OCTOBER 2016

Analytical results for the 2nd SA event (October 2015) indicate VOCs were not detected above method detection limits except at the onsite monitoring well OBG MW-5S, and offsite monitoring wells OBG OS MW-4 and OBG OS MW-5. Onsite monitoring well OBG MW-5S had the following detection: 1, 4-Dichlorobenzene (2 µg/l).

Offsite monitoring well OBG OS MW-4 had the following detections:

- chlorobenzene (7 µg/l), ethylbenzene (2 µg/l), p,m-Xylene (4 µg/l), o-Xylene (2 µg/l), Isopropylbenzene (6 µg/l), n-Propylbenzene (11 µg/l), 1,3,5-trimethylbenzene (1 µg/l), 1,2,3-trimethylbenzene (5 µg/l), sec-Butylbenzene (3 µg/l), 1,4-Dichlorobenzene (5 µg/l), 1,2,4-trimethylbenzene (6 µg/l), isopropylbenzene (6 µg/l), n-Butylbenzene (2 µg/l), Naphthalene (117 µg/l) and 2-Methylnaphthalene (49 µg/l).

Offsite monitoring well OBG OS MW-5 had the following detections: chlorobenzene (7 µg/l), n-Propylbenzene (1 µg/l) and 1,4- dichlorobenzene (3 µg/l). These concentrations are below the MDEQ Part 201 Generic Residential Drinking Water criteria. The analytical results for the 2nd SA event are summarized on **Table 3** and the groundwater analytical data sheets are included in **Exhibit C**. A figure depicting the October 2016 groundwater results above MDEQ criteria is included as **Figure 5**.

Groundwater results for inorganic analysis indicate selenium and zinc were not detected above method detection limits or detections were below the MDEQ Part 201 Generic Residential Drinking Water criteria. Turbidity levels at well OBG-MW7S did not stabilize below 20 NTUs, therefore, a groundwater sample for dissolved metals analysis was collected and analyzed. Historically, turbidity levels at well OBG MW-7S have been above 20 NTUs.

Analytical results for arsenic, barium and lead are as follows:

- Monitoring wells with groundwater concentrations of total arsenic (unless otherwise noted) above the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (10 µg/l) include: onsite wells OBG MW-2S (29 µg/l), OBG MW-2D (43 µg/l), OBG MW-6D (20 µg/l), OBG MW-7S (dissolved 19 µg/l), OBG MW-7D (32 µg/l), and offsite wells OBG OS MW-1 (36 µg/l), and OBG OS MW-2 (61 µg/l).
- 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 offsite wells: OBG OS MW-2 (6 µg/l) and OBG OS MW-5 (9 µg/l).
- Offsite monitoring well OBG OS MW-5 exhibited a concentration of total barium (2,000 µg/l) which is at the MDEQ Part 201 Generic Residential and Non-Residential Drinking Water criterion (2,000 µg/l).

SUMMARY

The results of the 2016 semiannual groundwater sampling program are comparable to the previous results from 2015. Concentrations of arsenic were detected in samples collected from onsite and offsite wells above the MDEQ Part 201 Nonresidential Drinking Water Criteria. In addition, barium and lead concentrations were detected in offsite wells (except for a detection of lead in one well onsite) above the MDEQ Part 201 Nonresidential Drinking Water Criteria. It is anticipated that on-site exceedances will be able to be addressed with a resource use restriction for Site groundwater in the RAP.

Concentrations of VOCs were detected above method detection limits in one onsite well (OBG MW-5S) and two offsite wells (OBG OS MW-4 and OBG OS MW-5). These detections are below the MDEQ Part 201 Nonresidential Drinking Water Criteria.

Review of the groundwater analytical data for both semiannual sampling events and historical data 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. Therefore, it is likely the impacted groundwater at the HRIL Site is not the source for groundwater impact offsite to the east.

PROPOSED FUTURE GROUNDWATER MONITORING

A semiannual groundwater sampling program is proposed for 2017. The groundwater sampling program will include collection of samples from the onsite groundwater well network at the HRIL site, 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 accordance with the MDEQ-approved Work Plan, if turbidity levels do not stabilize below 20 NTUs, a sample will also be collected and analyzed for dissolved metals.

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.

Brian E. White, PE
Vice President

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

Anthony J. Finch, CPG
Senior Project Geologist

cc: David Favero- RACER Trust

ATTACHMENTS:

Table 1- Monitoring Well Construction Details
Table 2- Groundwater Elevation Data
Table 3- Groundwater Analytical Results- April 2016 and October 2016

Figure 1- Monitoring Well Locations
Figure 2- Groundwater Elevations – April 2016
Figure 3- Groundwater Elevations – October 2016
Figure 4- Groundwater Analytical Results- April 2016

Figure 5- Groundwater Analytical Results- October 2016

Exhibit A- Groundwater Sampling Logs – April 2016 & October 2016
Exhibit B- Groundwater Analytical Data April 2016
Exhibit C- Groundwater Analytical Data October 2016

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	769.70	772.70	2	758.6-753.6	760.6-752.6
OBG MW-6D	1-Dec-10	O'Brien & Gere / Boart Longyear	44.40	769.65	772.69	2	733.29-728.29	735.29-727.29
OBG MW-7S	2-Dec-10	O'Brien & Gere / Boart Longyear	17.70	763.56	766.30	2	753.6-748.6	755.6-747.6
OBG MW-7D	2-Dec-10	O'Brien & Gere / Boart Longyear	47.80	763.55	766.36	2	723.56-718.56	725.56-717.56
OBG MW-8	9-Jun-16	O'Brien & Gere/ Stock	22.46	768.14	771.21	2	759.23- 749.23	761.14-749.14
OBG MW-9	9-Jun-16	O'Brien & Gere/ Stock	22.65	767.91	770.93	2	758.78-748.78	760.91-748.91
OBG MW-10	9-Jun-16	O'Brien & Gere/ Stock	21.00	766.17	768.96	2	758.5-748.5	760.17- 748.17
OBG MW-11	9-Jun-16	O'Brien & Gere/ Stock	20.00	772.60	775.64	2	762.6- 752.6	764.6-744.6
OBG OS MW-1	11-Nov-13	O'Brien & Gere / Cascade	30.15	774.09	776.57	2	756.42-746.42	754.42-745.42
OBG OS MW-2	11-Nov-13	O'Brien & Gere / Cascade	30.29	774.02	776.67	2	756.38-746.38	754.38-744.42
OBG OS MW-3	9-Jun-14	O'Brien & Gere / Cascade	30.29	779.78	782.89	2	762.59-752.59	764.59-751.59
OBG OS MW-4	9-Jun-14	O'Brien & Gere / Cascade	27.76	776.09	779.00	2	761.20-751.20	763.20-750.20
OBG OS MW-5	10-Jun-14	O'Brien & Gere / Cascade	28.15	776.45	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
Historical Groundwater Elevations

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)	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)
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	13.60	764.04	--	--
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	11.48	763.85	--	--
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	21.28	753.91	--	--
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	22.78	754.53	--	--
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	15.80	755.20	--	--
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	14.94	757.76	--	--
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	19.21	753.48	--	--
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	8.85	757.45	--	--
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	13.93	752.43	--	--
OBG MW-8	771.21													--	--	--	--	--	--
OBG MW-9	770.93													--	--	--	--	--	--
OBG MW-10	768.96													--	--	--	--	--	--
OBG MW-11	775.64													--	--	--	--	--	--
OBG OS MW-1	776.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.10	754.47
OBG OS MW-2	776.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.43	755.24
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
Historical Groundwater Elevations

Well	Top of Casing Elevation (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)	Depth To Water 5/28/2015 (ft btoc)	Static Water Elevation 5/28/2015 (ft amsl)	Depth To Water 10/29/2015 (ft btoc)	Static Water Elevation 10/29/2015 (ft amsl)	Depth To Water 4/14/2016 (ft btoc)	Static Water Elevation 4/14/2016 (ft amsl)	Depth To Water 9/9/2016 (ft btoc)	Static Water Elevation 9/9/2016 (ft amsl)	Depth To Water 10/21/2016 (ft btoc)	Static Water Elevation 10/21/2016 (ft amsl)
OBG MW-1S	777.64	12.69	764.95	--	--	--	--	12.44	765.20	12.64	765.00	12.75	764.89	11.45	766.19	--	--	12.89	764.75
OBG MW-2S	775.33	10.32	765.01	--	--	--	--	10.29	765.04	10.59	764.74	10.77	764.56	9.16	766.17	--	--	10.38	764.95
OBG MW-2D	775.19	20.21	754.98	--	--	--	--	20.42	754.77	19.90	755.29	19.94	755.25	18.83	756.36	--	--	21.02	754.17
OBG MW-3 **	777.31	22.73	754.58	--	--	--	--	22.54	754.77	22.85	754.46	22.77	754.54	22.47	754.84	--	--	23.05	754.26
OBG MW-4S	769.15	--	--	--	--	--	--	14.6	754.58	--	--	--	--	--	--	--	--	--	--
OBG MW-5S	771.00	15.59	755.41	--	--	--	--	15.84	755.16	15.61	755.39	15.40	755.60	15.17	755.83	--	--	15.80	755.20
OBG MW-6S	772.70	13.79	758.91	--	--	--	--	14.49	758.21	14.22	758.48	14.72	757.98	12.70	760.00	--	--	14.53	758.17
OBG MW-6D	772.69	18.10	754.59	--	--	--	--	18.06	754.63	17.54	755.15	17.70	754.99	16.99	755.70	--	--	17.96	754.73
OBG MW-7S	766.30	7.81	758.49	--	--	--	--	8.37	757.93	8.25	758.05	8.43	757.87	7.27	759.03	--	--	8.14	758.16
OBG MW-7D	766.36	12.64	753.72	--	--	--	--	12.91	753.45	12.35	754.01	12.44	753.92	11.35	755.01	--	--	13.47	752.89
OBG MW-8	771.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.30	754.91	--	--
OBG MW-9	770.93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.42	754.51	--	--
OBG MW-10	768.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OBG MW-11	775.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.30	757.34	--	--
OBG OS MW-1	776.57	--	--	--	--	--	--	22.17	754.40	21.95	754.62	22.24	754.33	21.40	755.17	--	--	21.71	754.86
OBG OS MW-2	776.67	--	--	--	--	--	--	21.58	755.09	21.34	755.33	21.73	754.94	20.49	756.18	--	--	21.18	755.49
OBG OS MW-3	782.89	--	--	25.39	757.50	25.52	757.37	25.89	757.00	25.99	756.90	26.06	756.83	25.10	757.79	--	--	26.33	756.56
OBG OS MW-4	779.00	--	--	24.29	754.71	24.34	754.66	24.48	754.52	24.40	754.60	24.25	754.75	23.91	755.09	--	--	24.52	754.48
OBG OS MW-5	779.38	--	--	24.71	754.67	24.79	754.59	24.91	754.47	24.82	754.56	24.67	754.71	24.33	755.05	--	--	24.94	754.44

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.
5) Water levels from newly installed wells OBG MW-8/9/10/11 collected on 9/9/2016.

Table 3
Hemphill Road Industrial Land- Burton, Michigan
Groundwater Analytical Results- April 2016

	Onsite Wells									Offsite Wells					MDEQ Part 201 Generic Criteria	
Monitoring Well Sample Date	OBG MW-1S 4/13/2016	OBG MW-2S 4/14/2016	OBG MW-2D 4/14/2016	OBG MW-3 4/13/2016	OBG MW-5S 4/13/2016	OBG MW-6S 4/13/2016	OBG MW-6D 4/14/2016	OBG MW-7S 4/14/2016	OBG MW-7D 4/14/2016	OBG OS-MW-1 4/14/2016	OBG OS-MW-2 4/14/2016	OBG OS-MW-3 4/13/2016	OBG OS-MW-4 4/13/2016	OBG OS-MW-5 4/13/2016	Residential Drinking Water	Non-Residential Drinking Water
Arsenic	<2	**15**	**34**	5	3	**12**	**14**	**11**	**33**	**33**	**49**	**17**	3	<2	**10 (A)**	**10 (A)**
Barium	162	166	286	91	1260	162	77	187	94	1040	255	248	1310	**2240**	2,000 (A)	2,000 (A)
Lead	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	**5**	**5**	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	<5	11	<5	<5	7	<5	6	<5	<5	6	<5	<5	<5	<5	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[3]	<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[3]	<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	8	11	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
Ethlybenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	74 (E)	74 (E)
p,m-Xylene[4]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	5	<2	280 (E)	280 (E)
o-Xylene[4]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<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	8	<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	13	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	7	<1	63 (E)	63 (E)
sec-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<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	6	5	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	4	<1	NA	NA
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<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	129	<5	520	1500
2-Methylnaphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	75	6	260	750

Notes:

1 Units are ug/L.
2 Metals analysis for OBG-MW7S, OBG-OS-MW 1 and OBG-OS-MW 2 is for dissolved metals.
3 Critria are for total 1,3-Dichloropropene, values for cis and trans should be summed and compared against the appropriate criterion.
4 Critria are for total xylenes, values for p,m- and o- should be summed and compared against the appropriate criterion.
5 Bolded and highlighted value denotes an analytical value that exceeds criteria or a criterion that has been exceeded.
6 (A) - Criterion is the state of Michigan drinking water standard established pursuant toSection 5 of 1976 PA 399, MCL 325.1005.
7 (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, asamended (NREPA).
8 (L) - Criteria for lead are derived using a biologically based model, as allowed forunder Section 20120a(9) of the NREPA.
9 (W) - Concentrations of trihalomethanes in groundwater shall be added together todetermine compliance with the Michigan drinking water standard of 80 ug/L.
10 'na' - means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

Table 3
Hemphill Road Industrial Land- Burton, Michigan
Groundwater Analytical Results- October 2016

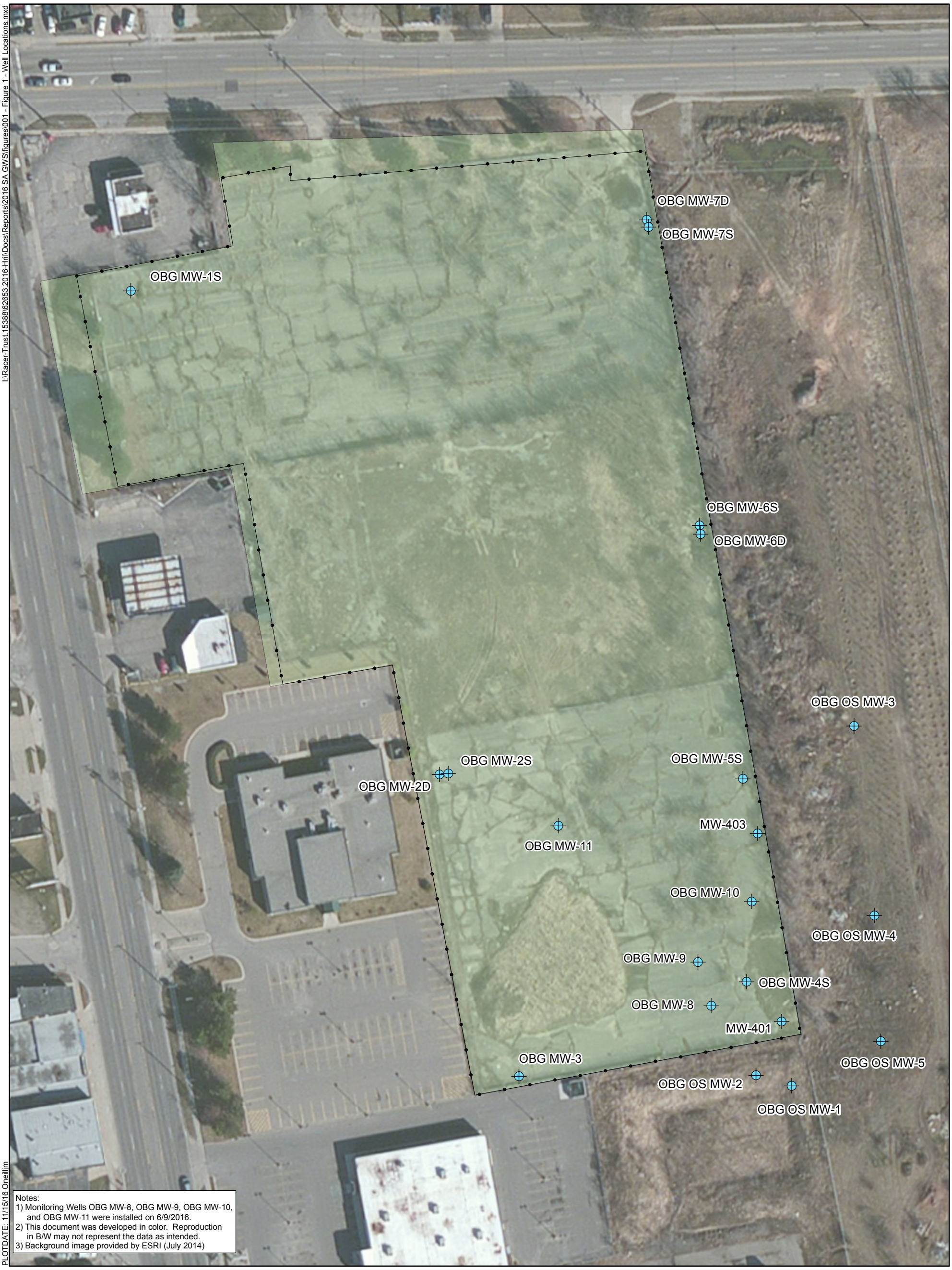
	Onsite Wells									Offsite Wells					MDEQ Part 201 Generic Criteria	
Monitoring Well Sample Date	OBG MW-1S 10/20/2016	OBG MW-2S 10/20/2016	OBG MW-2D 10/20/2016	OBG MW-3 10/21/2016	OBG MW-5S 10/20/2016	OBG MW-6S 10/20/2016	OBG MW-6D 10/20/2016	OBG MW-7S 10/20/2016	OBG MW-7D 10/20/2016	OBG OS-MW-1 10/21/2016	OBG OS-MW-2 10/21/2016	OBG OS-MW-3 10/21/2016	OBG OS-MW-4 10/21/2016	OBG OS-MW-5 10/21/2016	Residential Drinking Water	Non-Residential Drinking Water
Arsenic	<2	**29**	**43**	7	3	8	**20**	**19**	**32**	**36**	**61**	9	<2	<2	**10 (A)**	**10 (A)**
Barium	174	178	277	162	1280	166	75	235	95	1000	278	983	1310	**2,000**	**2,000 (A)**	**2,000 (A)**
Lead	<3	<3	<3	<3	**4**	<3	<3	<3	<3	<3	**6**	<3	<3	**9**	**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	<5	<5	7	<5	14	6	13	<5	<5	<5	12	7	<5	7	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[3]	<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[3]	<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	7	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
Ethlybenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	74 (E)	74 (E)
p,m-Xylene[4]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	4	<2	280 (E)	280 (E)
o-Xylene[4]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<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	6	<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	11	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	3	<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	2	<1	<1	<1	<1	<1	<1	<1	5	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	5	<1	NA	NA
n-Butylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<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	117	<5	520	1500
2-Methylnaphthalene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	49	<5	260	750

Notes:

1 Units are ug/L.
2 Metals analysis for OBG-MW7S is for dissolved metals.
3 Critria are for total 1,3-Dichloropropene, values for cis and trans should be summed and compared against the appropriate criterion.
4 Critria are for total xylenes, values for p,m- and o- should be summed and compared against the appropriate criterion.
5 Bolded and highlighted value denotes an analytical value that exceeds criteria or a criterion that has been exceeded.
6 (A) - Criterion is the state of Michigan drinking water standard established pursuant toSection 5 of 1976 PA 399, MCL 325.1005.
7 (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, asamended (NREPA).
8 (L) - Criteria for lead are derived using a biologically based model, as allowed forunder Section 20120a(9) of the NREPA.
9 (W) - Concentrations of trihalomethanes in groundwater shall be added together todetermine compliance with the Michigan drinking water standard of 80 ug/L.
10 'na' - means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

Figures

FIGURE 1



I:\Racer-Trust.15388\62653.2016-Hrli\Docs\Reports\2016 SA GWS\figures\001 - Figure 1 - Well Locations.mxd

PLOTDATE: 11/15/16 Oneilljm

Notes:
1) Monitoring Wells OBG MW-8, OBG MW-9, OBG MW-10, and OBG MW-11 were installed on 6/9/2016.
2) This document was developed in color. Reproduction in B/W may not represent the data as intended.
3) Background image provided by ESRI (July 2014)

LEGEND

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

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

MONITORING WELL LOCATIONS

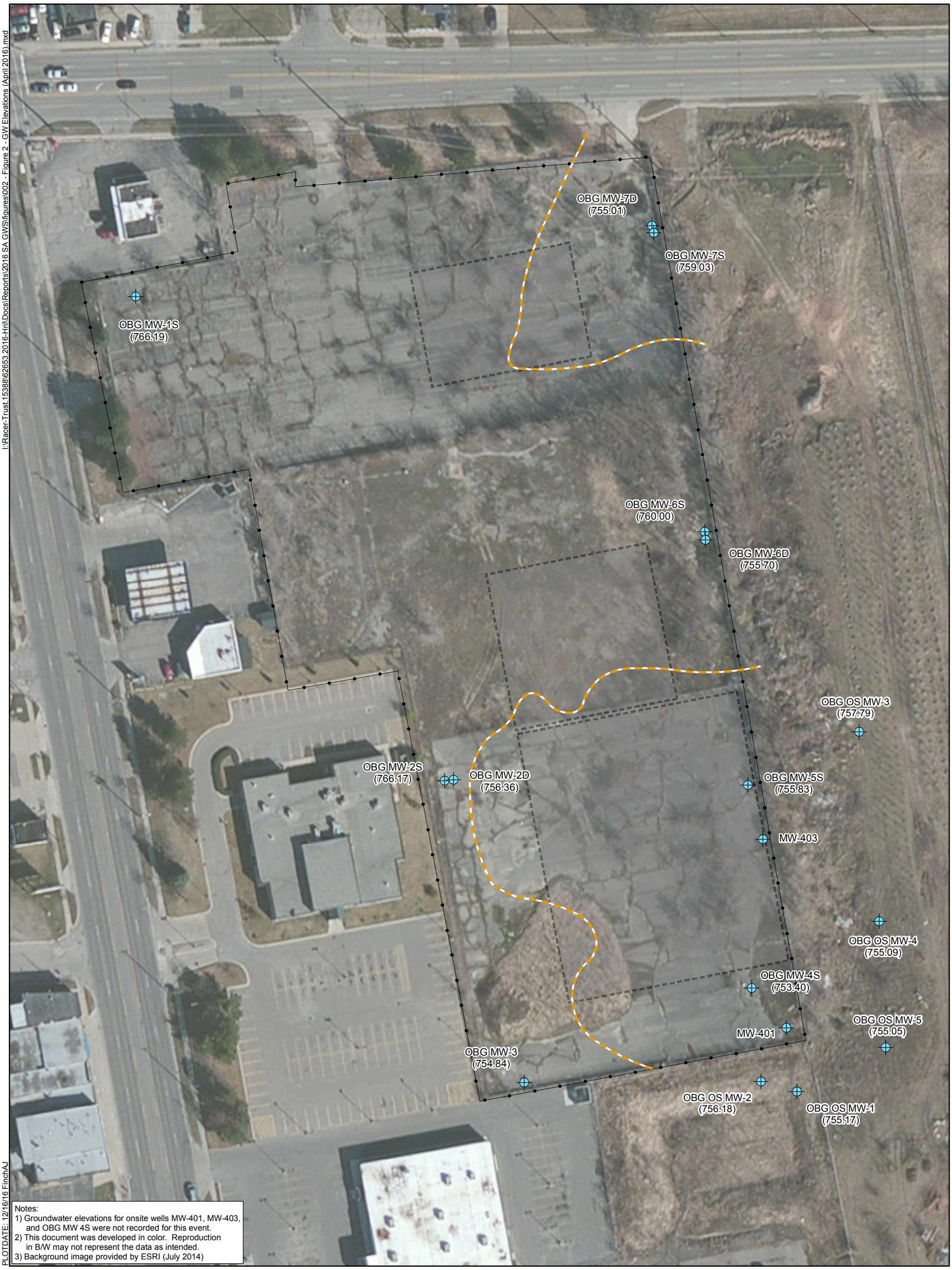
N

0 40 80 120 160
Feet

O'BRIEN & GERE

NOVEMBER 2016
15388/50138/005.MXD

FIGURE 2



I:\Racer-Trust.15388\62653.2016-Hrfl\Docs\Reports\2016 SA GWS\figures\002 - Figure 2 - GW Elevations (April 2016).mxd

PLOTDATE: 12/16/16 FinchAJ

Notes:
1) Groundwater elevations for onsite wells MW-401, MW-403, and OBG MW 4S were not recorded for this event.
2) This document was developed in color. Reproduction in B/W may not represent the data as intended.
3) Background image provided by ESRI (July 2014)

LEGEND

- (764.75) MONITORING WELL (GROUNDWATER ELEVATION IN FEET)
- FORMER BUILDING
- APPROXIMATE EXTENT OF WASTE FILL ONSITE

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

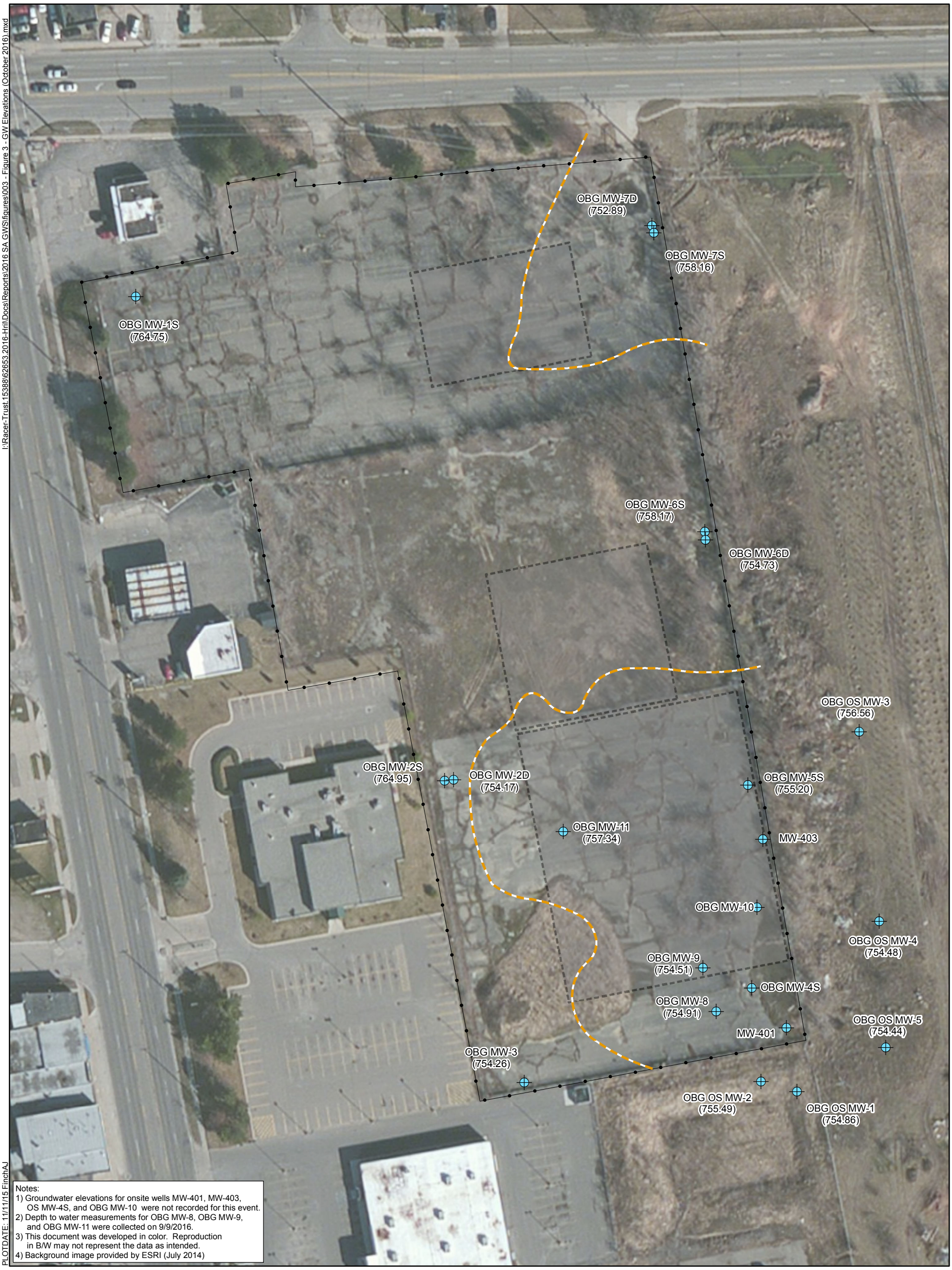
GROUNDWATER ELEVATIONS APRIL 2016

0 40 80 120 160
Feet

N

O'BRIEN & GERE

NOVEMBER 2016
15388/60778/002



Notes:
1) Groundwater elevations for onsite wells MW-401, MW-403, OS MW-4S, and OBG MW-10 were not recorded for this event.
2) Depth to water measurements for OBG MW-8, OBG MW-9, and OBG MW-11 were collected on 9/9/2016.
3) This document was developed in color. Reproduction in B/W may not represent the data as intended.
4) Background image provided by ESRI (July 2014)

LEGEND

(764.75) MONITORING WELL (GROUNDWATER ELEVATION IN FEET)

FORMER BUILDING

APPROXIMATE EXTENT OF WASTE FILL ONSITE

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

GROUNDWATER ELEVATIONS
OCTOBER 21, 2016

0 40 80 120 160
Feet

N

O'BRIEN & GERE

NOVEMBER 2016
15388/60778/002

I:\Racer-Trust.15388\62653.2016-Hrl\Docs\Reports\2016 SA GWS\figures\003 - Figure 3 - GW Elevations (October 2016).mxd

PLOTDATE: 11/11/15 FinchAJ

FIGURE 4

I:\Racer-Trust.15388\62653.2016-HrlIDocs\Reports\2016 SA GWS\figures\004 - GW Analytical Results (April 2016).mxd

OBG MW-7D
Arsenic - 33 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-7S
Arsenic - 11 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-1S
As, Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-6S
Arsenic - 12 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-6D
Arsenic - 14 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG OS-MW-3
Arsenic - 17 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-2S
Arsenic - 15 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-5S
As, Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-2D
Arsenic - 34 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-403
Not Sampled

OBG OS-MW-4
Lead - 5 µg/L
As, Ba, Se, Zn - non-detect or below criteria
VOCs - non-detect or below criteria

OBG MW-4S
Not Sampled

OBG MW-401
Not Sampled

OBG OS-MW-2
Arsenic - 49 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-3
As, Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG OS-MW-1
Arsenic - 33 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG OS-MW-5
Barium - 2,240 µg/L
Lead - 5 µg/L
As, Se, Zn - non-detect or below criteria
VOCs - non-detect or below criteria

NOTES:
1) The MDEQ Part 201 drinking water criteria for arsenic is 10 µg/L.
2) The MDEQ Part 201 drinking water criteria for barium is 2,000 µg/L.
3) The MDEQ Part 201 drinking water criteria for lead is 4 µg/L.
4) Monitoring well MW-4S was not sampled due to the presence of LNAPL.
5) Monitoring wells MW-401 and MW-403 were not sampled based on screen lengths greater than 10 feet.
6) This document was developed in color. Reproduction in B/W may not represent the data as intended.
7) Background image provided by ESRI (July 2014)

PLOTDATE: 12/21/15 FinchAJ

LEGEND

- MONITORING WELL
- HEMPHILL ROAD INDUSTRIAL LAND
- FORMER BUILDING
- APPROXIMATE EXTENT OF WASTE FILL ONSITE

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

GROUNDWATER ANALYTICAL RESULTS
APRIL 2016

0 40 80 120 160
Feet

N

O'BRIEN & GERE

APRIL 2016
15388/60778/004

FIGURE 5

I:\Racer-Trust.15388\62653.2016-Hrih\Docs\Reports\2016 SA GWS\figures\005 - GW Analytical Results (October 2016).mxd

OBG MW-7D
Arsenic - 32 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-7S
Arsenic - 19 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-1S
As, Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-6S
As, Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-6D
Arsenic - 20 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG OS-MW-3
Arsenic - 9 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-2S
Arsenic - 29 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-5S
As, Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-2D
Arsenic - 43 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-403
Not Sampled

OBG MW-11
Not Sampled

OBG OS-MW-4
As, Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect or below criteria

OBG MW-10
Not Sampled

OBG MW-9
Not Sampled

OBG MW-4S
Not Sampled

OBG MW-401
Not Sampled

OBG MW-8
Not Sampled

OBG OS-MW-2
Arsenic - 61 µg/L
Lead - 6 µg/L
Ba, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG MW-3
As, Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG OS-MW-1
Arsenic - 36 µg/L
Ba, Pb, Se, Zn - non-detect or below criteria
VOCs - non-detect

OBG OS-MW-5
Lead - 9 µg/L
As, Ba, Se, Zn - non-detect or below criteria
VOCs - non-detect or below criteria

NOTES:
1) The MDEQ Part 201 drinking water criteria for arsenic is 10 µg/L.
2) The MDEQ Part 201 drinking water criteria for barium is 2,000 µg/L.
3) The MDEQ Part 201 drinking water criteria for lead is 4 µg/L.
4) Monitoring well MW-4S was not sampled due to the presence of LNAPL.
5) Monitoring wells MW-401 and MW-403 were not sampled based on screen lengths greater than 10 feet.
6) This document was developed in color. Reproduction in B/W may not represent the data as intended.
7) Background image provided by ESRI (July 2014)

PLOTDATE: 12/21/15 FinchAJ

LEGEND

- MONITORING WELL
- HEMPHILL ROAD INDUSTRIAL LAND
- FORMER BUILDING
- APPROXIMATE EXTENT OF WASTE FILL ONSITE

RACER TRUST
HEMPHILL ROAD INDUSTRIAL LAND
BURTON, MICHIGAN

GROUNDWATER ANALYTICAL RESULTS
OCTOBER 2016

0 40 80 120 160
Feet

N

O'BRIEN & GERE

OCTOBER 2016
15388/60778/004

Exhibits

Exhibit A

Groundwater Sampling Logs

April 2016 & October 2016

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

Date: 4/14/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Sunny 50s
Well #: OBG-05-MW1
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	30.18	ft.
Depth to Water *	31.40	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: [X] 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)
1550 initial	22.00	12.82	1.214	1.58	6.90	-91.8	77
1555 5 min	22.26	12.64	1.191	0.45	6.84	-96.4	47
1600 10 min	22.31	13.20	1.190	0.29	6.84	-99.3	41
1605 15 min	22.44	13.28	1.200	0.22	6.85	-99.0	38
1610 20 min	22.55	13.26	1.196	0.17	6.84	-99.1	34
1615 25 min	22.59	13.27	1.199	0.15	6.84	-100.9	40
1620 30 min	22.65	13.39	1.197	0.15	6.84	-101.5	38
1625 35 min	22.71	13.22	1.203	0.14	6.84	-101.6	38
1630 40 min	22.81	13.25	1.204	0.13	6.84	-101.3	36
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1630

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Slightly cloudy	Color	clear / slightly cloudy
Odor	None	Odor	None
Turbidity (> 100 NTU)	High	Turbidity (> 100 NTU)	Low
Sheen/Free Product	None	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_3	

Notes: Field Filtered

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

Date: 4/14/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Sunny 50's
Well #: 036-MW-20
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	18.83	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: [X] 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	19.51	13.35	1.486	1.62	7.46	-47.7	962
1440 5 min	19.64	13.61	1.472	0.64	7.42	-57.7	543
1445 10 min	19.78	13.81	1.465	0.46	7.40	-60.9	190
1450 15 min	19.76	13.84	1.468	0.35	7.40	-60.2	107
1455 20 min	19.85	13.84	1.470	0.26	7.40	-60.8	51
1500 25 min	19.90	13.88	1.472	0.22	7.38	-61.8	33
1505 30 min	19.85	13.88	1.473	0.20	7.40	-68.3	24
1510 35 min	19.89	13.95	1.472	0.17	7.45	-75.3	17
1515 40 min	19.89	13.91	1.474	0.16	7.41	-76.5	14
1520 45 min	19.89	13.96	1.473	0.15	7.41	-78.0	13
1525 50 min							
1530 55 min							
1535 60 min							

Water Sample:
Time Collected: 1520

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Light Gray	Color	Clear
Odor	NONE	Odor	NONE
Turbidity (> 100 NTU)	HIGH	Turbidity (> 100 NTU)	LOW
Sheen/Free Product	NONE	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_3	

Notes:

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

Date: 4/14/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Mostly sunny 50's
Well #: OBG - MW 23S
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	20.31	ft.
Depth to Water *	9.16	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: [X] 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	9.95	11.66	2.404	2.69	7.35	30.8	11
1350 5 min	10.13	11.68	2.403	1.50	7.65	27.0	9
1355 10 min	10.62	11.54	2.413	1.17	7.27	24.8	8
1400 15 min	11.02	11.50	2.414	0.95	7.27	22.1	8
1405 20 min	11.45	11.28	2.421	0.88	7.23	19.8	7
1410 25 min	11.75	11.51	2.421	0.82	7.21	18.2	7
1415 30 min	12.09	11.26	2.431	0.80	7.24	17.9	7
1420 35 min	12.56	11.38	2.422	0.78	7.21	17.3	6
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1420

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	Low	Turbidity (> 100 NTU)	Low
Sheen/Free Product	None	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_3	

Notes:
collocated collected

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

Date: 4/14/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 628633
Personnel: KBS

Weather: Mostly Sunny 50's
Well #: OBG-MW 6D
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well * _____ ft.
Depth to Water * 10.99 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 [X] 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	17.88	11.37	0.883	4.15	7.80	-29.7	216
1215 5 min	18.23	11.35	0.883	3.87	7.80	-28.9	192
1220 10 min	18.39	11.43	0.883	3.74	7.80	-26.8	174
1225 15 min	18.54	11.48	0.883	3.52	7.79	-23.9	153
1230 20 min	18.80	11.64	0.885	3.07	7.79	-20.8	125
1235 25 min	18.82	11.70	0.889	2.61	7.78	-18.9	101
1240 30 min	18.88	11.61	0.892	2.64	7.77	-17.0	80
1245 35 min	18.92	11.64	0.893	2.27	7.76	-14.7	52
1250 40 min	19.06	11.87	0.894	2.04	7.75	-11.9	36
1255 45 min	19.11	11.78	0.896	1.97	7.76	-11.0	28
1300 50 min	19.16	11.76	0.898	1.98	7.75	-12.2	24
1305 55 min	19.16	11.87	0.900	1.92	7.75	-13.7	22
1310 60 min	19.21	11.87	0.901	1.80	7.74	-15.8	20
1315	19.23	11.96	0.901	1.78	7.75	-18.1	19

Water Sample:
Time Collected 1315

Physical Appearance at Start
Color: light gray
Odor: NONE
Turbidity (> 100 NTU): HIGH
Sheen/Free Product: NONE

Physical Appearance at Sampling
Color: Clear
Odor: NONE
Turbidity (> 100 NTU): Low
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_3	

Notes:

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

Date: 4/14/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 602652
Personnel: KBS

Weather: Partly sunny 52's
Well #: OBG-MW 7D
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	47.65	ft.
Depth to Water *	11.35	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: [X] 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	11.48	11.05	0.607	2.22	7.82	-45.5	251
1025 5 min	11.45	11.40	0.575	0.97	7.74	-91.8	284
1030 10 min	11.45	11.44	0.567	0.28	7.73	-102.9	214
1035 15 min	11.45	11.45	0.559	0.21	7.71	-98.4	138
1040 20 min	11.45	11.47	0.557	0.20	7.70	-98.6	107
1045 25 min	11.45	11.55	0.557	0.18	7.70	-112.5	95
1050 30 min	11.45	11.60	0.556	0.16	7.69	-118.7	71
1055 35 min	1145	11.57	0.556	0.15	7.70	-120.6	60
1100 40 min	1145	11.53	0.557	0.14	7.70	-101.4	46
1105 45 min	1145	11.50	0.557	0.16	7.69	-96.4	44
1110 50 min	1145	11.49	0.557	0.15	7.70	-97.4	41
1115 55 min	1145	11.48	0.556	0.15	7.71	-95.0	34
1120 60 min	1145	11.54	0.555	0.15	7.70	-95.4	28
1125	1145	11.63	0.555	0.17	7.70	-95.1	18
Water Sample:	1145	11.67	0.555	0.14	7.71	-92.3	16
Time Collected	1145 (1135)	11.71	0.555	0.13	7.71	-91.6	13

Physical Appearance at Start

Color	light Gray
Odor	NONE
Turbidity (> 100 NTU)	HIGH
Sheen/Free Product	NONE

Physical Appearance at Sampling

Color	Clear
Odor	NONE
Turbidity (> 100 NTU)	LOW
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_3	

Notes:

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

Date	4/14/16	Weather	Partly sunny 50's
Site Name	RACER Site #1291 - Burton Parcel	Well #	OBG - MW 7 S
Location	Burton, MI	Evacuation Method	Peristaltic / Submersible pump
Project No.	602653	Sampling Method	Low-flow
Personnel	KBS		

Well Information:

Depth of Well *	17.75	ft.
Depth to Water *	7.27	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: [X] 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	8.22	8.05	1.193	2.92	6.43	157.0	129
850 5 min	9.61	8.47	1.178	0.45	6.31	115.0	141
855 10 min	10.00	8.45	1.181	0.39	6.37	86.7	137
900 15 min	10.35	8.44	1.178	0.31	6.44	67.5	111
905 20 min	10.64	8.40	1.179	0.27	6.43	45.2	101
910 25 min	10.75	8.31	1.180	0.27	6.54	17.5	107
915 30 min	10.88	8.01	1.183	0.24	6.53	7.4	88
920 35 min	10.96	8.53	1.183	0.28	6.48	-7.0	86
925 40 min	11.41	8.90	1.187	0.21	6.51	-19.8	71
930 45 min	11.86	9.05	1.189	0.20	6.58	-28.2	69
935 50 min	12.21	9.19	1.193	0.19	6.60	-37.0	62
940 55 min	12.61	9.34	1.195	0.19	6.64	-44.2	67
945 60 min	12.89	9.54	1.197	0.19	6.64	-48.8	60
955	12.47	9.57	1.199	0.22	6.68	-56.8	59
1000 **Water Sample:**		9.52	1.205	0.20	6.65	-59.1	57
1005 Time Collected	1005	9.48	1.207	0.21	6.64	-64.3	55

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Yellowish color	Color	slight yellowish color
Odor	None	Odor	None
Turbidity (> 100 NTU)	High	Turbidity (> 100 NTU)	High
Sheen/Free Product	None	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_3	

Notes:

Field Filtered

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

Date: 4/13/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Mostly cloudy 40's
Well #: OBG-MW 6S
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	16.15	ft.
Depth to Water *	12.70	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: [X] 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	13.45	10.63	1.386	6.57	7.29	-5.6	19
1610 5 min	14.19	10.04	1.323	1.49	7.10	5.9	9
1615 10 min	14.33	9.69	1.313	1.31	7.07	11.8	15
1620 15 min	14.52	9.55	1.307	1.33	7.05	16.0	11
1625 20 min	15.05	9.38	1.307	1.43	6.93	22.0	9
1630 25 min	15.39	9.42	1.299	1.39	6.94	22.8	9
1635 30 min	15.83	9.37	1.301	1.33	6.95	22.6	8
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1635

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	Low	Turbidity (> 100 NTU)	Low
Sheen/Free Product	None	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_3	

Notes:

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

Date: 4/13/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 062653
Personnel: KBS

Weather: Mostly cloudy 40s
Well #: OBG-MW5S
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	20.31	ft.
Depth to Water *	15.17	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: [X] 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	15.79	12.63	2.941	0.95	6.79	-78.5	37
1450 5 min	16.35	12.19	2.933	0.41	6.70	-87.1	43
1455 10 min	16.44	12.31	2.924	0.33	6.72	-84.1	41
1500 15 min	16.59	12.06	2.925	0.26	6.70	-77.7	39
1505 20 min	16.73	12.36	2.985	0.24	6.70	-83.3	25
1510 25 min	16.91	12.27	3.147	0.22	6.73	-80.2	27
1515 30 min	17.00	12.01	3.266	0.19	6.70	-76.1	22
1520 35 min	17.10	12.03	3.373	0.19	6.70	-77.3	21
1525 40 min	17.15	12.07	3.439	0.19	6.70	-90.5	18
1530 45 min	17.24	12.12	3.464	0.18	6.69	-90.2	17
1535 50 min	17.35	12.39	3.478	0.20	6.67	-86.4	15
55 min							
60 min							

Water Sample:
Time Collected: 1535

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Slight yellowish color	Color	Slight yellowish color
Odor	Fuel odor	Odor	Slight fuel odor
Turbidity (> 100 NTU)	Low	Turbidity (> 100 NTU)	Low
Sheen/Free Product	Slight sheen	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_3	

Notes: DUP-1 collected

O'Brien & Gere Engineers, Inc.

Standard Groundwater Sampling Log

Date: 4/13/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: cloudy 40's
Well #: OBG-05-MW5
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *: 28.15 ft.
Depth to Water *: 24.33 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: [X] 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)
1100	initial	24.39	11.06	2.533	2.22	6.57	-52.0	33
1105	5 min	24.39	11.24	2.521	0.82	6.54	-60.9	15
1110	10 min	24.39	11.27	2.487	0.50	6.52	-58.1	14
1115	15 min	24.39	11.36	2.456	0.40	6.57	-60.3	11
1120	20 min	24.39	11.42	2.415	0.34	6.49	-63.6	11
1125	25 min	24.39	11.55	2.369	0.33	6.49	-61.8	10
1130	30 min	24.39	11.52	2.346	0.31	6.48	-58.4	9
	35 min							
	40 min							
	45 min							
	50 min							
	55 min							
	60 min							

Water Sample:
Time Collected: 1130

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	NONE	Odor	NONE
Turbidity (> 100 NTU)	Low	Turbidity (> 100 NTU)	Low
Sheen/Free Product	NONE	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_3	

Notes:

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

Date: 4/13/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: cloudy 40's
Well #: OBG-OS-MW4
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	27.76	ft.
Depth to Water *	23.91	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: [X] 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)
1000 initial	23.91	9.95	2.080	11.14	6.80	-79.8	22
1005 5 min	23.91	10.21	2.122	1.23	6.70	-84.4	19
1010 10 min	23.91	10.28	2.125	0.68	6.69	-85.4	19
1015 15 min	23.91	10.31	2.125	0.52	6.69	-84.9	18
1020 20 min	23.91	10.35	2.123	0.47	6.68	-84.1	17
1025 25 min	23.91	10.60	2.119	0.55	6.67	-83.1	15
1030 30 min	23.91	10.62	2.120	0.45	6.67	-82.9	12
1035 35 min	23.91	10.64	2.119	0.47	6.67	-82.6	11
1040 40 min	23.91	10.61	2.118	0.49	6.67	-81.6	11
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1040

Physical Appearance at Start		Physical Appearance at Sampling	
Color	clear	Color	clear
Odor	slight chemical odor	Odor	slight chemical odor
Turbidity (> 100 NTU)	low	Turbidity (> 100 NTU)	low
Sheen/Free Product	None / slight sheen	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_3	

Notes:

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

Date: 4/13/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 60653
Personnel: KBS

Weather: Mostly cloudy 40s
Well #: OBG-MW35
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	27.91	ft.
Depth to Water *	22.47	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: [X] 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)
1330 initial	22.55	12.00	2.372	4.46	7.26	19.9	12
1335 5 min	22.57	11.71	2.216	0.52	7.13	14.8	10
1340 10 min	22.57	11.77	2.063	0.33	7.04	5.6	8
1345 15 min	22.59	11.81	1.972	0.26	6.89	3.5	8
1350 20 min	22.59	11.89	1.914	0.24	6.82	1.0	7
1355 25 min	22.59	12.10	1.875	0.20	6.91	-1.2	7
1400 30 min	22.59	11.94	1.861	0.17	6.99	-3.0	5
1405 35 min	22.59	11.58	1.849	0.17	7.00	-4.2	5
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1405

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	Low	Turbidity (> 100 NTU)	Low
Sheen/Free Product	None	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_3	

Notes: MS/MSD collected

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

Date: 4/13/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: C02653
Personnel: KBS

Weather: Mostly cloudy 40s
Well #: OBG MW 15
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	27.23	ft.
Depth to Water *	11.45	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: [X] 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)
1230 initial	12.15	11.07	1.239	5.04	7.63	-35.5	8
1235 5 min	12.52	11.82	1.230	3.20	7.54	-19.9	8
1240 10 min	12.85	11.73	1.225	2.88	7.51	-17.9	7
1245 15 min	13.25	11.91	1.223	2.80	7.49	-10.8	7
1250 20 min	13.58	11.92	1.227	2.44	7.47	-2.7	8
1255 25 min	13.76	12.06	1.229	2.18	7.44	-0.3	8
1300 30 min	13.98	12.04	1.234	2.05	7.46	4.1	9
1305 35 min	14.13	12.09	1.240	1.98	7.43	7.7	10
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1305

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	NONE	Odor	NONE
Turbidity (> 100 NTU)	LOW	Turbidity (> 100 NTU)	LOW
Sheen/Free Product	NONE	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_3	

Notes:

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

Date: 4/13/15
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: cloudy 40s
Well #: OB6-OS-MW3
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	30.28	ft.
Depth to Water *	25.10	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 gal.(s)
Did well go dry? No

* Measurements taken from: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping Rate 150 ml/min

	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)
905 initial	25.14	8.89	1.295	0.52	7.09	-146.6	37
910 5 min	25.15	9.28	1.285	0.34	7.21	-162.9	29
915 10 min	25.15	9.36	1.291	0.30	7.26	-133.4	13
920 15 min	25.15	9.50	1.296	0.30	7.30	-133.9	8
925 20 min	25.15	9.606	1.296	0.28	7.31	-138.6	7
930 25 min	25.15	9.70	1.299	0.26	7.33	-138.4	5
935 30 min	25.15	9.57	1.304	0.24	7.33	-144.4	3
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 935

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	NONE	Odor	NONE
Turbidity (> 100 NTU)	LOW	Turbidity (> 100 NTU)	LOW
Sheen/Free Product	NONE	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_3	

Notes:

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

Date: 4/14/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Sunny 50's
Well #: OBG-05-MW2
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	20.49	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: [X] 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	21.15	12.63	1.026	1.61	6.88	-82.6	11
1655 5 min	21.05	12.53	1.015	0.54	6.82	-81.2	13
1700 10 min							
1705 15 min							
1710 20 min	21.09	13.45	1.026	6.35	6.96	-92.1	15
1715 25 min	21.29	12.84	1.013	0.77	6.83	-81.7	17
1720 30 min	21.32	12.74	1.006	3.05	6.81	-75.0	25
1725 35 min	21.39	12.30	1.023	3153	6.85	-73.0	40
1730 40 min	21.44	12.00	1.007	1.32	6.81	-70.3	35
1735 45 min	21.60	11.91	1.007	0.48	6.80	-70.6	38
1740 50 min	21.66	11.77	1.008	0.33	6.79	-68.3	36
1745 55 min	21.70	11.74	1.006	0.31	6.79	-67.4	36
60 min	21.74	11.83	1.006	0.30	6.79	-66.7	34

Water Sample:
Time Collected: 1745

Physical Appearance at Start		Physical Appearance at Sampling	
Color	clear	Color	clear / slightly cloudy
Odor	None	Odor	None
Turbidity (> 100 NTU)	Hew	Turbidity (> 100 NTU)	med
Sheen/Free Product	None	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_3	

Notes:
Pump issue during purging had to stop and restart
Field Filtered

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

Date: 10/21/10
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 602653
Personnel: KBS

Weather: cloudy 50's
Well #: OBG-OS-MW 2
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	21.18	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping Rate : 100 ml/min

	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	21.30	13.5	853	0.50	6.65	-29.7	19
1335 5 min	21.35	13.3	850	0.26	6.68	-37.6	5
1340 10 min	21.54	13.3	847	0.11	6.71	-46.3	0
1345 15 min	21.63	13.2	847	0.11	6.71	-48.9	0
1350 20 min	21.70	13.1	844	0.10	6.71	-47.3	0
1355 25 min	21.80	13.1	843	0.09	6.71	-51.0	1
1400 30 min	21.88	13.1	843	0.09	6.71	-51.6	1
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1400

Physical Appearance at Start

Color	clear
Odor	NONE
Turbidity (> 100 NTU)	19
Sheen/Free Product	NONE

Physical Appearance at Sampling

Color	clear
Odor	NONE
Turbidity (> 100 NTU)	1
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_3	

Notes:

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

Date: 10/21/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: cloudy 50's
Well #: OBG-05-MW1
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	21.71	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping rate 100 ml/min

	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	21.91	12.8	979	0.92	6.77	-33.8	188
1240 5 min	22.07	12.6	967	0.46	6.76	-43.3	120
1245 10 min	22.20	12.3	932	0.26	6.76	-47.9	83
1250 15 min	22.48	12.3	917	0.10	6.76	-53.3	58
1255 20 min	22.56	12.3	916	0.09	6.76	-55.2	42
1300 25 min	22.70	12.3	914	0.09	6.76	-57.5	37
1305 30 min	22.83	12.4	916	0.08	6.77	-60.6	21
1310 35 min	22.94	12.6	921	0.07	6.77	-61.7	14
1315 40 min	23.00	12.7	924	0.07	6.78	-62.7	10
1320 45 min	23.05	12.7	925	0.06	6.79	-64.0	9
1325 50 min	23.10	12.7	926	0.06	6.79	-64.3	10
55 min							
60 min							

Water Sample:
Time Collected: 1325

Physical Appearance at Start

Color	light Gray
Odor	NONE
Turbidity (> 100 NTU)	NO
Sheen/Free Product	NONE

Physical Appearance at Sampling

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_3	

Notes:

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

Date: 10/21/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: cloudy 50's
Well #: 086-MW3S
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	23.05	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping Rate: 100 ml/min

	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	23.08	15.7	7783	0.53	6.89	15.7	80
1145 5 min	23.08	15.7	2788	0.30	6.92	12.9	34
1150 10 min	23.08	15.9	2748	0.15	6.93	8.7	13
1155 15 min	23.08	15.9	2709	0.10	6.92	5.6	6
1200 20 min	23.08	16.2	2680	0.06	6.92	3.1	6
1205 25 min	23.08	16.1	2670	0.06	6.93	1.3	5
1210 30 min	23.08	16.3	2667	0.07	6.93	-0.1	5
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1215

Physical Appearance at Start:
- Color: Slight rust color
- Odor: None
- Turbidity (> 100 NTU): 80
- Sheen/Free Product: None

Physical Appearance at Sampling:
- 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_3	

Notes: * Collocated collected

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

Date: 10/21/10
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 626653
Personnel: KBS

Weather: Cloudy 40's
Well #: OBG-05-MW5
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	24.94	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping rate: 100 ml/min

	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	24.99	11.9	2080	0.82	6.47	-15.8	26
1015 5 min	24.99	11.8	2088	0.69	6.51	-28.5	14
1020 10 min	24.99	11.8	2031	0.27	6.51	-42.4	13
1025 15 min	24.99	11.8	2004	0.16	6.51	-45.1	10
1030 20 min	24.99	11.9	1992	0.16	6.51	-47.4	8
1035 25 min	24.99	12.0	1966	0.13	6.51	-47.5	8
1040 30 min	24.99	12.2	1950	0.14	6.51	-50.7	6
1045 35 min	24.99	12.5	1935	0.13	6.55	-53.0	6
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1045

Physical Appearance at Start		Physical Appearance at Sampling	
Color	clear	Color	clear
Odor	solvent odor	Odor	solvent odor
Turbidity (> 100 NTU)	no	Turbidity (> 100 NTU)	no
Sheen/Free Product	slight sheen	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_3	

Notes:

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

Date: 10/21/10
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: cloudy 40's
Well #: OBG-05-MW4
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	24.50	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:
- 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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping Rate: 100 ml/min

	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	24.54	11.4	1648	0.90	6.57	-48.8	32
930 5 min	24.54	11.4	1653	0.65	6.60	-54.3	26
935 10 min	24.54	11.7	1641	0.20	6.67	-73.9	11
940 15 min	24.54	11.7	1665	0.13	6.70	-79.8	10
945 20 min	24.54	11.7	1660	0.13	6.72	-81.9	7
950 25 min	24.54	11.7	1664	0.12	6.74	-84.5	8
955 30 min	24.54	11.8	1663	0.14	6.78	-85.2	8
35 min							
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1000

Physical Appearance at Start		Physical Appearance at Sampling	
Color	clear	Color	clear
Odor	slight solvent odor	Odor	slight solvent odor
Turbidity (> 100 NTU)	32	Turbidity (> 100 NTU)	8
Sheen/Free Product	slight sheen	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_3	

Notes:

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

Date: 10/21/14
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Cloudy 40's
Well #: OB6-05-MW3
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	26.33	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping rate 100 ml/min

	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	26.33	11.8	1596	0.37	6.28	-29.5	36
8:25 5 min	26.33	11.6	1583	0.31	6.37	-59.0	20
8:30 10 min	26.33	11.6	1584	0.19	6.44	-70.7	13
8:35 15 min	26.33	11.1	1561	0.10	6.50	-78.0	16
8:40 20 min							
8:45 25 min	26.33	11.7	1596	0.62	6.56	-56.0	48
8:50 30 min	26.33	11.7	1570	0.21	6.59	-72.7	20
8:55 35 min	26.33	11.6	1562	0.17	6.61	-78.0	13
9:00 40 min	26.33	11.7	1568	0.12	6.61	-79.1	13
9:05 45 min	26.33	11.6	1565	0.11	6.62	-81.3	12
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 910

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	36	Turbidity (> 100 NTU)	12
Sheen/Free Product	None	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_3	

Notes: Pump stopped and restarted 15 min into purging

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

Date: 10/20/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Rain 50's
Well #: OBG-MW55
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	15.80	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: 1½ gal.(s)
Did well go dry? NO

* Measurements taken from: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping Rate: 100 ml/min

	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	16.08	16.6	2465	1.81	6.58	-31.5	15
1645 5 min	16.37	16.8	2525	0.25	6.72	-44.9	11
1650 10 min	16.55	16.8	2533	0.20	6.72	-49.6	25
1655 15 min	16.73	16.8	2536	0.19	6.72	-53.5	23
1700 20 min	16.82	16.5	2537	0.16	6.74	-51.7	20
1705 25 min	16.902	16.2	2613	0.15	6.73	-62.9	20
1710 30 min	16.95	16.1	2699	0.16	6.80	-70.5	20
1715 35 min	16.98	16.1	2751	0.16	6.79	-76.2	19
1720 40 min	17.05	16.0	2780	0.17	6.79	-82.2	18
1725 45 min	17.21	16.0	2820	0.17	6.79	-85.3	18
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1730

Physical Appearance at Start

Color	clear / Yellowish
Odor	fuel odor
Turbidity (> 100 NTU)	15
Sheen/Free Product	slight sheen

Physical Appearance at Sampling

Color	clear / Yellowish
Odor	fuel odor
Turbidity (> 100 NTU)	18
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_3	

Notes:
* DUP-1 collected

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

Date: 10/20/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 102653
Personnel: KBS

Weather: Rain 50's
Well #: OBG-MW2D
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	21.02	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: 2 gal.(s)
Did well go dry? NO

* Measurements taken from: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping rate: 100 ml/min

	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	21.14	14.3	1227	0.76	7.39	-78.4	1100
1535 5 min	21.34	14.6	1222	0.15	7.46	-96.9	1010
1540 10 min	21.60	14.7	1225	0.08	7.47	-99.9	269
1545 15 min	21.91	14.7	1226	0.07	7.47	-100.0	298
1550 20 min	21.97	14.6	1218	0.05	7.49	-101.5	141
1555 25 min	22.05	14.6	1213	0.04	7.50	-101.7	96
1600 30 min	22.05	14.5	1217	0.05	7.50	-102.1	50
1605 35 min	22.05	14.6	1217	0.04	7.50	-102.5	36
1610 40 min	22.05	14.7	1227	0.05	7.50	-103.3	16
1615 45 min	22.05	14.6	1228	0.04	7.50	-103.9	15
1620 50 min	22.05	14.7	1224	0.04	7.50	-104.1	13
1625 55 min	22.05	14.8	1223	0.04	7.50	-104.2	13
60 min							

Water Sample:
Time Collected: 1625

Physical Appearance at Start		Physical Appearance at Sampling	
Color	cloudy / light brn	Color	Clear
Odor	NONE	Odor	NONE
Turbidity (> 100 NTU)	1100	Turbidity (> 100 NTU)	13
Sheen/Free Product	NONE	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_3	

Notes:

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

Date: 10/20/10
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 02653
Personnel: KBS

Weather: Rain 50's
Well #: OBG-MW 2S
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	20.31	ft.
Depth to Water *	10.38	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: 1 gal.(s)
Did well go dry? NO

* Measurements taken from: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	yes
ORP	yes
Conductivity	yes
DO	yes

Water parameters: Pumping rate: 100 ml/min

	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	~~10.93~~ 10.93	initial 17.0	initial 2026	initial 0.60	initial 6.97	initial -29.9	initial 14
1405 5 min	~~11.21~~ 11.21	17.1	2074	0.25	7.09	-46.6	11
1410 10 min	~~11.61~~ 11.61	17.1	2085	0.17	7.13	-54.8	10
1415 15 min	~~11.79~~ 11.79	17.1	2082	0.11	7.16	-59.1	11
1420 20 min	~~12.21~~ 12.21	17.1	2080	0.11	7.18	-61.9	6
1425 25 min	12.33	17.0	2075	0.10	7.19	-63.2	10
1430 30 min	12.45	17.0	2072	0.08	7.21	-64.3	10
1435 35 min	12.52	16.9	2070	0.08	7.22	-64.8	9
1500 40 min	12.60	17.0	2072	0.08	7.23	-65.5	8
1505 45 min		16.9	2067	0.08	7.23	-65.4	8
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1505

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	NONE	Odor	NONE
Turbidity (> 100 NTU)	14	Turbidity (> 100 NTU)	8
Sheen/Free Product	NONE	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_3	

Notes:

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

Date: 10/20/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Rain
Well #: OBG-MW 6D
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	17.96	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping rate: 100 ml/min

	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	19.00	12.4	698	2.92	7.57	57.1	148
1245 5 min	19.95	12.4	686	0.28	7.58	31.2	101
1250 10 min	20.49	12.6	689	0.14	7.58	18.6	92
1255 15 min	21.06	12.5	689	0.12	7.58	5.8	78
1300 20 min	21.22	12.5	695	0.08	7.61	-12.6	57
1305 25 min	21.45	12.6	700	0.06	7.60	-29.0	48
1310 30 min	21.63	12.6	700	0.06	7.60	-38.7	33
1315 35 min	22.02	12.5	700	0.06	7.62	-48.4	24
1320 40 min	22.36	12.7	695	0.05	7.64	-60.5	19
1325 45 min	22.62	12.3	700	0.05	7.65	-68.6	14
1330 50 min	23.04	12.4	704	0.04	7.67	-76.2	11
1335 55 min	23.55	12.4	705	0.04	7.69	-79.9	11
1340 60 min	23.90	12.4	704	0.04	7.69	-85.4	10

Water Sample:
Time Collected: 1340

Physical Appearance at Start

Color	Cloudy / light Gray
Odor	None
Turbidity (> 100 NTU)	148
Sheen/Free Product	None

Physical Appearance at Sampling

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_3	

Notes:

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

Date: 10/20/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: Rain 50's
Well #: OBG-MW 6S
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *: ____ ft.
Depth to Water *: 14.53 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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify) ____

Instrument Calibration:

Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping rate: 100 ml/min

	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	14.73	14.7	1076	4.16	6.47	88.6	20
1140 5 min	15.00	14.4	1112	1.29	6.80	70.1	15
1145 10 min	15.11	14.5	1113	1.32	6.82	68.6	16
1150 15 min	15.32	14.5	1119	1.48	6.85	67.8	15
1155 20 min	15.55	14.6	1125	1.87	6.87	63.9	13
1200 25 min	15.92	14.6	1137	1.54	6.87	55.5	13
1205 30 min	16.05	14.6	1138	1.41	6.88	48.6	10
1210 35 min	16.14	14.7	1138	1.34	6.89	43.7	13
1215 40 min	16.20	14.6	1137	1.28	6.90	39.1	11
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1215

Physical Appearance at Start [ ]
- Color: Clear
- Odor: NONE
- Turbidity (> 100 NTU): 20
- Sheen/Free Product: NONE

Physical Appearance at Sampling
- Color: Clear
- Odor: NONE
- Turbidity (> 100 NTU): 11
- 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_3	

Notes:

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

Date: 10/20/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 602653
Personnel: KBS

Weather: cloudy
Well #: GB6 MW-7D
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	13.47	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping rate: 100 ml/min

	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	13.64	13.3	436	0.89	7.55	-95.2	321
1025 5 min	13.54	13.1	437	0.60	7.54	-99.1	268
1030 10 min	13.60	13.1	436	0.31	7.54	-103.8	121
1035 15 min	13.60	12.7	430	0.16	7.58	-105.8	40
1040 20 min	13.60	12.6	429	0.13	7.61	-108.0	21
1045 25 min	13.60	12.6	428	0.10	7.62	-109.4	12
1050 30 min	13.60	12.7	432	0.09	7.62	-111.1	9
1055 35 min	13.60	12.9	433	0.08	7.63	-112.1	9
40 min	13.60	12.9	431	0.08	7.64	-112.7	8
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 1100

Physical Appearance at Start		Physical Appearance at Sampling	
Color	cloudy / light Gray	Color	Clear
Odor	NONE	Odor	NONE
Turbidity (> 100 NTU)	321	Turbidity (> 100 NTU)	9
Sheen/Free Product	NONE	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_3	

Notes:

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

Date: 10/20/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: cloudy 50's
Well #: OBG MW-75
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *		ft.
Depth to Water *	8.14	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration: Calibrated within range

pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping rate: 100 ml/min

	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	8.61	15.3	1060	1.91	6.52	-60.4	17
925 5 min	9.08	15.3	1061	0.26	6.59	-79.9	16
930 10 min	9.49	15.3	1061	0.19	6.62	-85.1	12
935 15 min	9.91	15.3	1058	0.15	6.64	-86.9	21
940 20 min	10.43	15.2	1052	0.15	6.64	-86.3	24
945 25 min	10.64	15.1	1046	0.14	6.65	-81.6	31
950 30 min	10.95	15.1	1040	0.14	6.65	-78.5	28
955 35 min	11.31	15.1	1036	0.14	6.67	-80.0	29
40 min							
45 min							
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 955

Physical Appearance at Start		Physical Appearance at Sampling	
Color	clear / slight yellowish	Color	clear
Odor	NONE	Odor	NONE
Turbidity (> 100 NTU)	17	Turbidity (> 100 NTU)	29
Sheen/Free Product	NONE	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_3	Yes

Notes: Field Filtered

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

Date: 10/20/16
Site Name: RACER Site #1291 - Burton Parcel
Location: Burton, MI
Project No.: 62653
Personnel: KBS

Weather: cloudy
Well #: OBG MW-15
Evacuation Method: Peristaltic / Submersible pump
Sampling Method: Low-flow

Well Information:

Depth of Well *	27.23	ft.
Depth to Water *	12.89	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: [X] Well Casing [ ] Protective Casing [ ] (Other, Specify)

Instrument Calibration:

	Calibrated within range
pH	Yes
ORP	Yes
Conductivity	Yes
DO	Yes

Water parameters: Pumping Rate: 100 ml/min

	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	13.29	16.8	1201	0.75	6.95	1.7	6
8:00 5 min	13.61	16.8	1163	0.53	6.96	-16.1	2
8:25 10 min	13.78	16.8	1148	0.24	7.03	-25.9	1
8:30 15 min	13.95	16.8	1135	0.24	7.08	-24.7	1
8:35 20 min	14.07	16.6	1116	0.19	7.15	-11.7	2
8:40 25 min	14.19	16.7	1106	0.23	7.19	-5.6	2
8:45 30 min	14.12	16.7	1104	0.27	7.22	1.0	2
8:50 35 min	14.15	16.8	1107	0.23	7.22	7.1	3
8:55 40 min	14.21	16.7	1100	0.22	7.24	11.5	3
9:00 45 min	14.29	16.5	1097	0.20	7.25	15.0	2
50 min							
55 min							
60 min							

Water Sample:
Time Collected: 900

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	6	Turbidity (> 100 NTU)	2
Sheen/Free Product	None	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_3	

Notes:

Exhibit B

Groundwater Analytical Data

April 2016

Analytical Laboratory Report

Report ID: S72818.01(01)
Generated on 04/29/2016

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): S72818.01-S72818.21
Project: RACER Hemphill Rd Industrial Land
Collected Date: 04/13/2016 - 04/14/2016
Submitted Date/Time: 04/15/2016 16:00
Sampled by: Kevin Schneider
P.O. #: 11600361

Table of Contents

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by 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).
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 Narrative

There is no additional narrative for this analytical 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

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
SW8260C	SW 846 Method 8260C Revision 3 August 2006

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S72818.01	OBG-OS-MW3	Groundwater	04/13/16 09:35
S72818.02	OBG-OS-MW4	Groundwater	04/13/16 10:40
S72818.03	OBG-OS-MW5	Groundwater	04/13/16 11:30
S72818.04	OBG-MW1S	Groundwater	04/13/16 13:05
S72818.05	OBG-MW3S	Groundwater	04/13/16 14:05
S72818.06	OBG-MW3S MS	Groundwater	04/13/16 14:05
S72818.07	OBG-MW3S MSD	Groundwater	04/13/16 14:05
S72818.08	OBG-MW5S	Groundwater	04/13/16 15:35
S72818.09	Dup-1	Groundwater	04/13/16 00:01
S72818.10	OBG-MW6S	Groundwater	04/13/16 16:35
S72818.11	OBG-MW7S	Groundwater	04/14/16 10:05
S72818.12	OBG-MW7D	Groundwater	04/14/16 11:35
S72818.13	OBG-MW6D	Groundwater	04/14/16 13:15
S72818.14	OBG-MW2S	Groundwater	04/14/16 14:20
S72818.15	OBG-MW2S Collocated	Groundwater	04/14/16 14:20
S72818.16	Field Blank-1	Quality Control	04/14/16 14:45
S72818.17	OBG-MW2D	Groundwater	04/14/16 15:20
S72818.18	OBG-OS-MW1	Groundwater	04/14/16 16:30
S72818.19	OBG-OS-MW2	Groundwater	04/14/16 17:45
S72818.20	Equipment Blank-1	Quality Control	04/14/16 18:00
S72818.21	Trip Blank-1	Quality Control	04/14/16 00:01

Analytical Laboratory Report

Lab Sample ID: S72818.01
Sample Tag: OBG-OS-MW3
Collected Date/Time: 04/13/2016 09:35
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.017	mg/L	0.002	E200.8	04/28/16 17:38	PER	7440-38-2	
Barium	0.248	mg/L	0.005	E200.8	04/28/16 17:38	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 17:38	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:38	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 17:38	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 06:05	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 06:05	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 06:05	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 06:05	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 06:05	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 06:05	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 06:05	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	75-27-4	

Lab Sample ID: S72818.01 (continued)
Sample Tag: OBG-OS-MW3

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 06:05	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:05	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 06:05	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.02
Sample Tag: OBG-OS-MW4
Collected Date/Time: 04/13/2016 10:40
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.003	mg/L	0.002	E200.8	04/28/16 17:42	PER	7440-38-2	
Barium	1.31	mg/L	0.005	E200.8	04/28/16 17:42	PER	7440-39-3	
Lead	0.005	mg/L	0.003	E200.8	04/28/16 17:42	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:42	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 17:42	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 06:28	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 06:28	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 06:28	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 06:28	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 06:28	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 06:28	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 06:28	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	75-27-4	

Lab Sample ID: S72818.02 (continued)
Sample Tag: OBG-OS-MW4

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	106-93-4	
Chlorobenzene	8	ug/L	1	SW8260C	04/20/16 06:28	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	630-20-6	
Ethylbenzene	2	ug/L	1	SW8260C	04/20/16 06:28	JGH	100-41-4	
p,m-Xylene	5	ug/L	2	SW8260C	04/20/16 06:28	JGH		
o-Xylene	2	ug/L	1	SW8260C	04/20/16 06:28	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	100-42-5	
Isopropylbenzene	8	ug/L	5	SW8260C	04/20/16 06:28	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	96-18-4	
n-Propylbenzene	13	ug/L	1	SW8260C	04/20/16 06:28	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	108-86-1	
1,3,5-Trimethylbenzene	1	ug/L	1	SW8260C	04/20/16 06:28	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	98-06-6	
1,2,4-Trimethylbenzene	7	ug/L	1	SW8260C	04/20/16 06:28	JGH	95-63-6	
sec-Butylbenzene	3	ug/L	1	SW8260C	04/20/16 06:28	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	541-73-1	
1,4-Dichlorobenzene	6	ug/L	1	SW8260C	04/20/16 06:28	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 06:28	JGH	95-50-1	
1,2,3-Trimethylbenzene	4	ug/L	1	SW8260C	04/20/16 06:28	JGH	526-73-8	
n-Butylbenzene	2	ug/L	1	SW8260C	04/20/16 06:28	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 06:28	JGH	87-61-6	
Naphthalene	129	ug/L	5	SW8260C	04/20/16 06:28	JGH	91-20-3	
2-Methylnaphthalene	75	ug/L	5	SW8260C	04/20/16 06:28	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.03
Sample Tag: OBG-OS-MW5
Collected Date/Time: 04/13/2016 11:30
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	04/28/16 17:43	PER	7440-38-2	
Barium	2.24	mg/L	0.005	E200.8	04/28/16 17:43	PER	7440-39-3	
Lead	0.005	mg/L	0.003	E200.8	04/28/16 17:43	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:43	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 17:43	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 17:36	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 17:36	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 17:36	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 17:36	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 17:36	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 17:36	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 17:36	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	75-27-4	

Lab Sample ID: S72818.03 (continued)
Sample Tag: OBG-OS-MW5

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	106-93-4	
Chlorobenzene	11	ug/L	1	SW8260C	04/20/16 17:36	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 17:36	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	96-18-4	
n-Propylbenzene	1	ug/L	1	SW8260C	04/20/16 17:36	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	541-73-1	
1,4-Dichlorobenzene	5	ug/L	1	SW8260C	04/20/16 17:36	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:36	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 17:36	JGH	91-20-3	
2-Methylnaphthalene	6	ug/L	5	SW8260C	04/20/16 17:36	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.04
Sample Tag: OBG-MW1S
Collected Date/Time: 04/13/2016 13:05
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	04/28/16 17:44	PER	7440-38-2	
Barium	0.162	mg/L	0.005	E200.8	04/28/16 17:44	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 17:44	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:44	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 17:44	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 07:14	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 07:14	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 07:14	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 07:14	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 07:14	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 07:14	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 07:14	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	75-27-4	

Lab Sample ID: S72818.04 (continued)
Sample Tag: OBG-MW1S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 07:14	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:14	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 07:14	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.05
Sample Tag: OBG-MW3S
Collected Date/Time: 04/13/2016 14:05
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.005	mg/L	0.002	E200.8	04/28/16 17:52	PER	7440-38-2	
Barium	0.091	mg/L	0.005	E200.8	04/28/16 17:52	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 17:52	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:52	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 17:52	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 04:33	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 04:33	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 04:33	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 04:33	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 04:33	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 04:33	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 04:33	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	75-27-4	

Lab Sample ID: S72818.05 (continued)
Sample Tag: OBG-MW3S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 04:33	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 04:33	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 04:33	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.06
Sample Tag: OBG-MW3S MS
Collected Date/Time: 04/13/2016 14:05
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
4	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.259	mg/L	0.002	E200.8	04/28/16 17:53	PER	7440-38-2	
Barium	0.356	mg/L	0.005	E200.8	04/28/16 17:53	PER	7440-39-3	
Lead	0.239	mg/L	0.003	E200.8	04/28/16 17:53	PER	7439-92-1	
Selenium	0.253	mg/L	0.005	E200.8	04/28/16 17:53	PER	7782-49-2	
Zinc	0.254	mg/L	0.005	E200.8	04/28/16 17:53	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	48	ug/L	10	SW8260C	04/20/16 02:15	JGH	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 02:15	JGH	67-64-1	1
Methyl iodide	56	ug/L	1	SW8260C	04/20/16 02:15	JGH	74-88-4	1
Carbon disulfide	53	ug/L	5	SW8260C	04/20/16 02:15	JGH	75-15-0	1
tert-Methyl butyl ether (MTBE)	53	ug/L	5	SW8260C	04/20/16 02:15	JGH	1634-04-4	1
Acrylonitrile	53	ug/L	2	SW8260C	04/20/16 02:15	JGH	107-13-1	1
2-Butanone (MEK)	39	ug/L	25	SW8260C	04/20/16 02:15	JGH	78-93-3	1
Dichlorodifluoromethane	57	ug/L	5	SW8260C	04/20/16 02:15	JGH	75-71-8	1
Chloromethane	48	ug/L	5	SW8260C	04/20/16 02:15	JGH	74-87-3	1
Vinyl chloride	45	ug/L	1	SW8260C	04/20/16 02:15	JGH	75-01-4	1
Bromomethane	56	ug/L	5	SW8260C	04/20/16 02:15	JGH	74-83-9	1
Chloroethane	50	ug/L	5	SW8260C	04/20/16 02:15	JGH	75-00-3	1
Trichlorofluoromethane	53	ug/L	1	SW8260C	04/20/16 02:15	JGH	75-69-4	1
1,1-Dichloroethene	53	ug/L	1	SW8260C	04/20/16 02:15	JGH	75-35-4	1
Methylene chloride	51	ug/L	5	SW8260C	04/20/16 02:15	JGH	75-09-2	1
trans-1,2-Dichloroethene	52	ug/L	1	SW8260C	04/20/16 02:15	JGH	156-60-5	1
1,1-Dichloroethane	53	ug/L	1	SW8260C	04/20/16 02:15	JGH	75-34-3	1
cis-1,2-Dichloroethene	54	ug/L	1	SW8260C	04/20/16 02:15	JGH	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 02:15	JGH	109-99-9	1
Chloroform	54	ug/L	1	SW8260C	04/20/16 02:15	JGH	67-66-3	1
Bromochloromethane	55	ug/L	1	SW8260C	04/20/16 02:15	JGH	74-97-5	1
1,1,1-Trichloroethane	57	ug/L	1	SW8260C	04/20/16 02:15	JGH	71-55-6	1
4-Methyl-2-pentanone (MIBK)	56	ug/L	50	SW8260C	04/20/16 02:15	JGH	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 02:15	JGH	591-78-6	1
Carbon tetrachloride	61	ug/L	1	SW8260C	04/20/16 02:15	JGH	56-23-5	1
Benzene	53	ug/L	1	SW8260C	04/20/16 02:15	JGH	71-43-2	1
1,2-Dichloroethane	57	ug/L	1	SW8260C	04/20/16 02:15	JGH	107-06-2	1
Trichloroethene	55	ug/L	1	SW8260C	04/20/16 02:15	JGH	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	SW8260C	04/20/16 02:15	JGH	78-87-5	1

1-Spiked at 50ug/L

Lab Sample ID: S72818.06 (continued)
Sample Tag: OBG-MW3S MS

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	58	ug/L	1	SW8260C	04/20/16 02:15	JGH	75-27-4	1
Dibromomethane	59	ug/L	5	SW8260C	04/20/16 02:15	JGH	74-95-3	1
cis-1,3-Dichloropropene	57	ug/L	1	SW8260C	04/20/16 02:15	JGH	10061-01-5	1
Toluene	55	ug/L	1	SW8260C	04/20/16 02:15	JGH	108-88-3	1
trans-1,3-Dichloropropene	59	ug/L	1	SW8260C	04/20/16 02:15	JGH	10061-02-6	1
1,1,2-Trichloroethane	55	ug/L	1	SW8260C	04/20/16 02:15	JGH	79-00-5	1
Tetrachloroethene	51	ug/L	1	SW8260C	04/20/16 02:15	JGH	127-18-4	1
trans-1,4-Dichloro-2-butene	57	ug/L	1	SW8260C	04/20/16 02:15	JGH	110-57-6	1
Dibromochloromethane	60	ug/L	5	SW8260C	04/20/16 02:15	JGH	124-48-1	1
1,2-Dibromoethane	56	ug/L	1	SW8260C	04/20/16 02:15	JGH	106-93-4	1
Chlorobenzene	54	ug/L	1	SW8260C	04/20/16 02:15	JGH	108-90-7	1
1,1,1,2-Tetrachloroethane	60	ug/L	1	SW8260C	04/20/16 02:15	JGH	630-20-6	1
Ethylbenzene	56	ug/L	1	SW8260C	04/20/16 02:15	JGH	100-41-4	1
p,m-Xylene	109	ug/L	2	SW8260C	04/20/16 02:15	JGH		1
o-Xylene	55	ug/L	1	SW8260C	04/20/16 02:15	JGH	95-47-6	1
Styrene	47	ug/L	1	SW8260C	04/20/16 02:15	JGH	100-42-5	1
Isopropylbenzene	56	ug/L	5	SW8260C	04/20/16 02:15	JGH	98-82-8	1
Bromoform	61	ug/L	1	SW8260C	04/20/16 02:15	JGH	75-25-2	1
1,1,2,2-Tetrachloroethane	55	ug/L	1	SW8260C	04/20/16 02:15	JGH	79-34-5	1
1,2,3-Trichloropropane	55	ug/L	1	SW8260C	04/20/16 02:15	JGH	96-18-4	1
n-Propylbenzene	55	ug/L	1	SW8260C	04/20/16 02:15	JGH	103-65-1	1
Bromobenzene	57	ug/L	1	SW8260C	04/20/16 02:15	JGH	108-86-1	1
1,3,5-Trimethylbenzene	52	ug/L	1	SW8260C	04/20/16 02:15	JGH	108-67-8	1
tert-Butylbenzene	58	ug/L	1	SW8260C	04/20/16 02:15	JGH	98-06-6	1
1,2,4-Trimethylbenzene	44	ug/L	1	SW8260C	04/20/16 02:15	JGH	95-63-6	1
sec-Butylbenzene	53	ug/L	1	SW8260C	04/20/16 02:15	JGH	135-98-8	1
p-Isopropyltoluene	54	ug/L	5	SW8260C	04/20/16 02:15	JGH	99-87-6	1
1,3-Dichlorobenzene	54	ug/L	1	SW8260C	04/20/16 02:15	JGH	541-73-1	1
1,4-Dichlorobenzene	53	ug/L	1	SW8260C	04/20/16 02:15	JGH	106-46-7	1
1,2-Dichlorobenzene	54	ug/L	1	SW8260C	04/20/16 02:15	JGH	95-50-1	1
1,2,3-Trimethylbenzene	49	ug/L	1	SW8260C	04/20/16 02:15	JGH	526-73-8	1
n-Butylbenzene	53	ug/L	1	SW8260C	04/20/16 02:15	JGH	104-51-8	1
Hexachloroethane	61	ug/L	5	SW8260C	04/20/16 02:15	JGH	67-72-1	1
1,2-Dibromo-3-chloropropane	58	ug/L	5	SW8260C	04/20/16 02:15	JGH	96-12-8	1
1,2,4-Trichlorobenzene	56	ug/L	5	SW8260C	04/20/16 02:15	JGH	120-82-1	1
1,2,3-Trichlorobenzene	55	ug/L	5	SW8260C	04/20/16 02:15	JGH	87-61-6	1
Naphthalene	58	ug/L	5	SW8260C	04/20/16 02:15	JGH	91-20-3	1
2-Methylnaphthalene	56	ug/L	5	SW8260C	04/20/16 02:15	JGH	91-57-6	1

1-Spiked at 50ug/L

Lab Sample ID: S72818.07
Sample Tag: OBG-MW3S MSD
Collected Date/Time: 04/13/2016 14:05
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
4	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.269	mg/L	0.002	E200.8	04/28/16 17:54	PER	7440-38-2	
Barium	0.354	mg/L	0.005	E200.8	04/28/16 17:54	PER	7440-39-3	
Lead	0.239	mg/L	0.003	E200.8	04/28/16 17:54	PER	7439-92-1	
Selenium	0.231	mg/L	0.005	E200.8	04/28/16 17:54	PER	7782-49-2	
Zinc	0.256	mg/L	0.005	E200.8	04/28/16 17:54	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	47	ug/L	10	SW8260C	04/20/16 02:38	JGH	60-29-7	1
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 02:38	JGH	67-64-1	1
Methyl iodide	55	ug/L	1	SW8260C	04/20/16 02:38	JGH	74-88-4	1
Carbon disulfide	39	ug/L	5	SW8260C	04/20/16 02:38	JGH	75-15-0	1
tert-Methyl butyl ether (MTBE)	53	ug/L	5	SW8260C	04/20/16 02:38	JGH	1634-04-4	1
Acrylonitrile	53	ug/L	2	SW8260C	04/20/16 02:38	JGH	107-13-1	1
2-Butanone (MEK)	39	ug/L	25	SW8260C	04/20/16 02:38	JGH	78-93-3	1
Dichlorodifluoromethane	57	ug/L	5	SW8260C	04/20/16 02:38	JGH	75-71-8	1
Chloromethane	46	ug/L	5	SW8260C	04/20/16 02:38	JGH	74-87-3	1
Vinyl chloride	45	ug/L	1	SW8260C	04/20/16 02:38	JGH	75-01-4	1
Bromomethane	55	ug/L	5	SW8260C	04/20/16 02:38	JGH	74-83-9	1
Chloroethane	50	ug/L	5	SW8260C	04/20/16 02:38	JGH	75-00-3	1
Trichlorofluoromethane	53	ug/L	1	SW8260C	04/20/16 02:38	JGH	75-69-4	1
1,1-Dichloroethene	52	ug/L	1	SW8260C	04/20/16 02:38	JGH	75-35-4	1
Methylene chloride	51	ug/L	5	SW8260C	04/20/16 02:38	JGH	75-09-2	1
trans-1,2-Dichloroethene	52	ug/L	1	SW8260C	04/20/16 02:38	JGH	156-60-5	1
1,1-Dichloroethane	53	ug/L	1	SW8260C	04/20/16 02:38	JGH	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	SW8260C	04/20/16 02:38	JGH	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 02:38	JGH	109-99-9	1
Chloroform	55	ug/L	1	SW8260C	04/20/16 02:38	JGH	67-66-3	1
Bromochloromethane	55	ug/L	1	SW8260C	04/20/16 02:38	JGH	74-97-5	1
1,1,1-Trichloroethane	57	ug/L	1	SW8260C	04/20/16 02:38	JGH	71-55-6	1
4-Methyl-2-pentanone (MIBK)	57	ug/L	50	SW8260C	04/20/16 02:38	JGH	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 02:38	JGH	591-78-6	1
Carbon tetrachloride	60	ug/L	1	SW8260C	04/20/16 02:38	JGH	56-23-5	1
Benzene	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	71-43-2	1
1,2-Dichloroethane	58	ug/L	1	SW8260C	04/20/16 02:38	JGH	107-06-2	1
Trichloroethene	56	ug/L	1	SW8260C	04/20/16 02:38	JGH	79-01-6	1
1,2-Dichloropropane	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	78-87-5	1

1-Spiked at 50ug/L

Lab Sample ID: S72818.07 (continued)
Sample Tag: OBG-MW3S MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	58	ug/L	1	SW8260C	04/20/16 02:38	JGH	75-27-4	1
Dibromomethane	59	ug/L	5	SW8260C	04/20/16 02:38	JGH	74-95-3	1
cis-1,3-Dichloropropene	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	10061-01-5	1
Toluene	55	ug/L	1	SW8260C	04/20/16 02:38	JGH	108-88-3	1
trans-1,3-Dichloropropene	56	ug/L	1	SW8260C	04/20/16 02:38	JGH	10061-02-6	1
1,1,2-Trichloroethane	55	ug/L	1	SW8260C	04/20/16 02:38	JGH	79-00-5	1
Tetrachloroethene	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	127-18-4	1
trans-1,4-Dichloro-2-butene	46	ug/L	1	SW8260C	04/20/16 02:38	JGH	110-57-6	1
Dibromochloromethane	57	ug/L	5	SW8260C	04/20/16 02:38	JGH	124-48-1	1
1,2-Dibromoethane	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	106-93-4	1
Chlorobenzene	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	108-90-7	1
1,1,1,2-Tetrachloroethane	59	ug/L	1	SW8260C	04/20/16 02:38	JGH	630-20-6	1
Ethylbenzene	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	100-41-4	1
p,m-Xylene	106	ug/L	2	SW8260C	04/20/16 02:38	JGH		1
o-Xylene	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	95-47-6	1
Styrene	45	ug/L	1	SW8260C	04/20/16 02:38	JGH	100-42-5	1
Isopropylbenzene	55	ug/L	5	SW8260C	04/20/16 02:38	JGH	98-82-8	1
Bromoform	57	ug/L	1	SW8260C	04/20/16 02:38	JGH	75-25-2	1
1,1,2,2-Tetrachloroethane	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	79-34-5	1
1,2,3-Trichloropropane	56	ug/L	1	SW8260C	04/20/16 02:38	JGH	96-18-4	1
n-Propylbenzene	54	ug/L	1	SW8260C	04/20/16 02:38	JGH	103-65-1	1
Bromobenzene	56	ug/L	1	SW8260C	04/20/16 02:38	JGH	108-86-1	1
1,3,5-Trimethylbenzene	50	ug/L	1	SW8260C	04/20/16 02:38	JGH	108-67-8	1
tert-Butylbenzene	57	ug/L	1	SW8260C	04/20/16 02:38	JGH	98-06-6	1
1,2,4-Trimethylbenzene	43	ug/L	1	SW8260C	04/20/16 02:38	JGH	95-63-6	1
sec-Butylbenzene	52	ug/L	1	SW8260C	04/20/16 02:38	JGH	135-98-8	1
p-Isopropyltoluene	53	ug/L	5	SW8260C	04/20/16 02:38	JGH	99-87-6	1
1,3-Dichlorobenzene	53	ug/L	1	SW8260C	04/20/16 02:38	JGH	541-73-1	1
1,4-Dichlorobenzene	52	ug/L	1	SW8260C	04/20/16 02:38	JGH	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	SW8260C	04/20/16 02:38	JGH	95-50-1	1
1,2,3-Trimethylbenzene	48	ug/L	1	SW8260C	04/20/16 02:38	JGH	526-73-8	1
n-Butylbenzene	51	ug/L	1	SW8260C	04/20/16 02:38	JGH	104-51-8	1
Hexachloroethane	55	ug/L	5	SW8260C	04/20/16 02:38	JGH	67-72-1	1
1,2-Dibromo-3-chloropropane	57	ug/L	5	SW8260C	04/20/16 02:38	JGH	96-12-8	1
1,2,4-Trichlorobenzene	55	ug/L	5	SW8260C	04/20/16 02:38	JGH	120-82-1	1
1,2,3-Trichlorobenzene	54	ug/L	5	SW8260C	04/20/16 02:38	JGH	87-61-6	1
Naphthalene	56	ug/L	5	SW8260C	04/20/16 02:38	JGH	91-20-3	1
2-Methylnaphthalene	55	ug/L	5	SW8260C	04/20/16 02:38	JGH	91-57-6	1

1-Spiked at 50ug/L

Analytical Laboratory Report

Lab Sample ID: S72818.08
Sample Tag: OBG-MW5S
Collected Date/Time: 04/13/2016 15:35
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.003	mg/L	0.002	E200.8	04/28/16 17:48	PER	7440-38-2	
Barium	1.26	mg/L	0.005	E200.8	04/28/16 17:48	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 17:48	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:48	PER	7782-49-2	
Zinc	0.007	mg/L	0.005	E200.8	04/28/16 17:48	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 07:37	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 07:37	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 07:37	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 07:37	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 07:37	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 07:37	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 07:37	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	75-27-4	

Lab Sample ID: S72818.08 (continued)
Sample Tag: OBG-MW5S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 07:37	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 07:37	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 07:37	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.09
Sample Tag: Dup-1
Collected Date/Time: 04/13/2016 00:01
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.003	mg/L	0.002	E200.8	04/28/16 17:49	PER	7440-38-2	
Barium	1.27	mg/L	0.005	E200.8	04/28/16 17:49	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 17:49	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:49	PER	7782-49-2	
Zinc	0.007	mg/L	0.005	E200.8	04/28/16 17:49	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 08:00	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 08:00	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 08:00	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 08:00	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 08:00	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 08:00	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 08:00	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	75-27-4	

Lab Sample ID: S72818.09 (continued)
Sample Tag: Dup-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 08:00	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:00	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 08:00	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.10
Sample Tag: OBG-MW6S
Collected Date/Time: 04/13/2016 16:35
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.012	mg/L	0.002	E200.8	04/28/16 17:51	PER	7440-38-2	
Barium	0.162	mg/L	0.005	E200.8	04/28/16 17:51	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 17:51	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:51	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 17:51	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 08:24	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 08:24	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 08:24	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 08:24	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 08:24	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 08:24	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 08:24	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	75-27-4	

Lab Sample ID: S72818.10 (continued)
Sample Tag: OBG-MW6S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 08:24	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:24	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 08:24	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.11
Sample Tag: OBG-MW7S
Collected Date/Time: 04/14/2016 10:05
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	PER		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic, Dissolved	0.011	mg/L	0.002	E200.8	04/28/16 17:58	PER	7440-38-2	
Barium, Dissolved	0.187	mg/L	0.005	E200.8	04/28/16 17:58	PER	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	04/28/16 17:58	PER	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	04/28/16 17:58	PER	7782-49-2	
Zinc, Dissolved	Not detected	mg/L	0.005	E200.8	04/28/16 17:58	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 08:47	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 08:47	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 08:47	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 08:47	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 08:47	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 08:47	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 08:47	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	75-27-4	

Lab Sample ID: S72818.11 (continued)
Sample Tag: OBG-MW7S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 08:47	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 08:47	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 08:47	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.12
Sample Tag: OBG-MW7D
Collected Date/Time: 04/14/2016 11:35
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.033	mg/L	0.002	E200.8	04/28/16 18:00	PER	7440-38-2	
Barium	0.094	mg/L	0.005	E200.8	04/28/16 18:00	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 18:00	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 18:00	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 18:00	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 09:09	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 09:09	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 09:09	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 09:09	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 09:09	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 09:09	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 09:09	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	75-27-4	

Lab Sample ID: S72818.12 (continued)
Sample Tag: OBG-MW7D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 09:09	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:09	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 09:09	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.13
Sample Tag: OBG-MW6D
Collected Date/Time: 04/14/2016 13:15
Matrix: Groundwater
COC Reference: 096892

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.014	mg/L	0.002	E200.8	04/28/16 18:01	PER	7440-38-2	
Barium	0.077	mg/L	0.005	E200.8	04/28/16 18:01	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 18:01	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 18:01	PER	7782-49-2	
Zinc	0.006	mg/L	0.005	E200.8	04/28/16 18:01	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 09:33	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 09:33	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 09:33	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 09:33	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 09:33	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 09:33	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 09:33	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	75-27-4	

Lab Sample ID: S72818.13 (continued)
Sample Tag: OBG-MW6D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 09:33	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:33	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 09:33	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.14
Sample Tag: OBG-MW2S
Collected Date/Time: 04/14/2016 14:20
Matrix: Groundwater
COC Reference: 096891

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.015	mg/L	0.002	E200.8	04/28/16 18:02	PER	7440-38-2	
Barium	0.166	mg/L	0.005	E200.8	04/28/16 18:02	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 18:02	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 18:02	PER	7782-49-2	
Zinc	0.011	mg/L	0.005	E200.8	04/28/16 18:02	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 09:56	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 09:56	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 09:56	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 09:56	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 09:56	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 09:56	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 09:56	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	75-27-4	

Lab Sample ID: S72818.14 (continued)
Sample Tag: OBG-MW2S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 09:56	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 09:56	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 09:56	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.15
Sample Tag: OBG-MW2S Collocated
Collected Date/Time: 04/14/2016 14:20
Matrix: Groundwater
COC Reference: 096891

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.013	mg/L	0.002	E200.8	04/28/16 18:03	PER	7440-38-2	
Barium	0.166	mg/L	0.005	E200.8	04/28/16 18:03	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 18:03	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 18:03	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 18:03	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 10:19	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 10:19	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 10:19	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 10:19	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 10:19	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 10:19	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 10:19	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	75-27-4	

Lab Sample ID: S72818.15 (continued)
Sample Tag: OBG-MW2S Collocated

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 10:19	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:19	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 10:19	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.16
Sample Tag: Field Blank-1
Collected Date/Time: 04/14/2016 14:45
Matrix: Quality Control
COC Reference: 096891

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	04/28/16 17:34	PER	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	04/28/16 17:34	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 17:34	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:34	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 17:34	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 10:42	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 10:42	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 10:42	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 10:42	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 10:42	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 10:42	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 10:42	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	75-27-4	

Lab Sample ID: S72818.16 (continued)
Sample Tag: Field Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 10:42	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 10:42	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 10:42	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.17
Sample Tag: OBG-MW2D
Collected Date/Time: 04/14/2016 15:20
Matrix: Groundwater
COC Reference: 096891

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	0.034	mg/L	0.002	E200.8	04/28/16 18:04	PER	7440-38-2	
Barium	0.286	mg/L	0.005	E200.8	04/28/16 18:04	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 18:04	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 18:04	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 18:04	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 11:05	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 11:05	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 11:05	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 11:05	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 11:05	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 11:05	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 11:05	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	75-27-4	

Lab Sample ID: S72818.17 (continued)
Sample Tag: OBG-MW2D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 11:05	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 11:05	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 11:05	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.18
Sample Tag: OBG-OS-MW1
Collected Date/Time: 04/14/2016 16:30
Matrix: Groundwater
COC Reference: 096891

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	PER		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic, Dissolved	0.033	mg/L	0.002	E200.8	04/28/16 18:06	PER	7440-38-2	
Barium, Dissolved	1.04	mg/L	0.005	E200.8	04/28/16 18:06	PER	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	04/28/16 18:06	PER	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	04/28/16 18:06	PER	7782-49-2	
Zinc, Dissolved	0.006	mg/L	0.005	E200.8	04/28/16 18:06	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 17:59	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 17:59	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 17:59	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 17:59	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 17:59	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 17:59	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 17:59	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	75-27-4	

Lab Sample ID: S72818.18 (continued)
Sample Tag: OBG-OS-MW1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 17:59	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 17:59	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 17:59	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.19
Sample Tag: OBG-OS-MW2
Collected Date/Time: 04/14/2016 17:45
Matrix: Groundwater
COC Reference: 096891

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	PER		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic, Dissolved	0.049	mg/L	0.002	E200.8	04/28/16 18:07	PER	7440-38-2	
Barium, Dissolved	0.255	mg/L	0.005	E200.8	04/28/16 18:07	PER	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	04/28/16 18:07	PER	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	04/28/16 18:07	PER	7782-49-2	
Zinc, Dissolved	Not detected	mg/L	0.005	E200.8	04/28/16 18:07	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 18:22	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 18:22	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 18:22	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 18:22	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 18:22	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 18:22	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 18:22	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	75-27-4	

Lab Sample ID: S72818.19 (continued)
Sample Tag: OBG-OS-MW2

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 18:22	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 18:22	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 18:22	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.20
Sample Tag: Equipment Blank-1
Collected Date/Time: 04/14/2016 18:00
Matrix: Quality Control
COC Reference: 096891

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.3	IR
3	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	04/28/16 12:00	CCM		
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	04/28/16 17:36	PER	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	04/28/16 17:36	PER	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	04/28/16 17:36	PER	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	04/28/16 17:36	PER	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	04/28/16 17:36	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 05:19	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 05:19	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 05:19	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 05:19	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 05:19	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 05:19	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 05:19	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	75-27-4	

Lab Sample ID: S72818.20 (continued)
Sample Tag: Equipment Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 05:19	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:19	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 05:19	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S72818.21
Sample Tag: Trip Blank-1
Collected Date/Time: 04/14/2016 00:01
Matrix: Quality Control
COC Reference: 096891

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	04/20/16 12:00	JML		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	04/20/16 05:42	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	04/20/16 05:42	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	04/20/16 05:42	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	04/20/16 05:42	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	04/20/16 05:42	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	04/20/16 05:42	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	04/20/16 05:42	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	106-93-4	

Lab Sample ID: S72818.21 (continued)
Sample Tag: Trip Blank-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	04/20/16 05:42	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	04/20/16 05:42	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	04/20/16 05:42	JGH	91-57-6	

Merit Laboratories, Inc.
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C.O.C. PAGE # 1 OF 2

096892

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Tony Finch
COMPANY: OBG
ADDRESS: 37000 Grand River Ste 260
CITY: Farmington Hills STATE: MI ZIP CODE: 48335
PHONE NO.: 248-477-5701 FAX NO.: 248-477-5962
E-MAIL ADDRESS: Anthony.Finch@OBG.com
P.O. NO.: 1160036 1
QUOTE NO.:

INVOICE TO

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

PROJECT NO./NAME: RACER Hemphill Rd Industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider

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

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL - As, Ba, Pb, Se, Zn	Dissolved As, Ba, Pb, Se, Zn
72818.01	4/13/16	935	OBG-OS-MW3	GW	4		3	1					X	X	
.02		1040	OBG-OS-MW4	GW	4		3	1					X	X	
.03		1130	OBG-OS-MW5	GW	4		3	1					X	X	
.04		1305	OBG-MW1S	GW	4		3	1					X	X	
.05		1405	OBG-MW3S	GW	4		3	1					X	X	
.06/.07		1405	OBG-MW3S (MS/MSD)	GW	10		8	2					X	X	
.08		1535	OBG-MW5S	GW	4		3	1					X	X	
.07		—	DUP-1	GW	4		3	1					X	X	
.10		1635	OBG-MW6S	GW	4		3	1					X	X	
.11	4/14/16	1005	OBG-MW7S	GW	4		3	1					X		X
.12		1135	OBG-MW7D	GW	4		3	1					X	X	
.13		1315	OBG-MW6D	GW	4		3	1					X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] OBG ☒ Sampler DATE: 4/15/16 TIME: 1056
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 4.15.16 TIME: 1038
RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 4.15.16 TIME: 1600
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 4-15-16 TIME: 16:00

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.3

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

Rev. 5.18.12

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 2

096891

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Tony Finch
COMPANY: OBG
ADDRESS: 37000 Grand River ste 200
CITY: Farmington Hills STATE: MI ZIP CODE: 48335
PHONE NO.: 248-477-5701 FAX NO.: 248-477-5962 P.O. NO.: 11600361
E-MAIL ADDRESS: Anthony.Finch@OBG.com QUOTE NO.:

INVOICE TO

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

PROJECT NO./NAME: RACER Hemphill Rd Industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider

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

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	Total As, Ba, Pb, Se, Zn	Dissolved As, Ba, Pb, Se, Zn
72818.14	4/14/16	1420	OBG-MW 2S	GW	4		3	1					X	X	
.15		1420	OBG-MW 2S collocated	GW	4		3	1					X	X	
.16		1445	Field Blank-1	QC	4		3	1					X	X	
.17		1500	OBG-MW 2D	GW	4		3	1					X	X	
.18		1630	OBG-OS-MW 1	GW	4		3	1					X		X
.19		1745	OBG-OS-MW 2	GW	4		3	1					X		X
.20		1800	Equipment Blank-1	QC	4		3	1					X	X	
.21	↓	—	Trip Blank-1	QC	2		2						X		

RELINQUISHED BY: SIGNATURE/ORGANIZATION	OBG ☒ Sampler	DATE 4/15/16	TIME 1038	
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4-15-16	TIME 1038	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME	

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 4-15-16	TIME 16:00
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

NOTES: TEMP. ON ARRIVAL 5.3

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

Rev. 5.18.12

Exhibit C

Groundwater Analytical Data

October 2016

Analytical Laboratory Report

Report ID: S77030.01(01)
Generated on 10/31/2016

Report to

Attention: Tony Finch
O'Brien & Gere Engineers
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.
2680 East Lansing Drive
East Lansing, MI 48823

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

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S77030.01-S77030.21
Project: Racer Hemphill Rd Industrial Land
Collected Date: 10/20/2016 - 10/21/2016
Submitted Date/Time: 10/21/2016 16:20
Sampled by: Kevin Schneider
P.O. #: 11600361

Table of Contents

Maya Murshak
Technical Director

General Report Notes

Analytical results relate only to the samples tested, in the condition 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).
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. Starred (*) analytes are not NELAP accredited.
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 Narrative

There is no additional narrative for this analytical 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

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
SW5030C/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5030C Revision 3 May 2003

Sample Summary (21 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S77030.01	OBG-MW 1S	Groundwater	10/20/16 09:00
S77030.02	OBG-MW 7S	Groundwater	10/20/16 09:55
S77030.03	OBG-MW 7D	Groundwater	10/20/16 11:00
S77030.04	OBG-MW 7D MS	Groundwater	10/20/16 11:00
S77030.05	OBG-MW 7D MSD	Groundwater	10/20/16 11:00
S77030.06	OBG-MW 6S	Groundwater	10/20/16 12:15
S77030.07	OBG-MW 6D	Groundwater	10/20/16 13:40
S77030.08	OBG-MW 2S	Groundwater	10/20/16 15:05
S77030.09	OBG-MW 2D	Groundwater	10/20/16 16:25
S77030.10	OBG-MW 5S	Groundwater	10/20/16 17:30
S77030.11	Dup-1	Groundwater	10/20/16 00:01
S77030.12	OBG- OS-MW3	Groundwater	10/21/16 09:10
S77030.13	OBG-OS-MW4	Groundwater	10/21/16 10:00
S77030.14	OBG-OS-MW5	Groundwater	10/21/16 10:45
S77030.15	OBG-MW 3S	Groundwater	10/21/16 12:15
S77030.16	OBG-MW 3S Collocated	Groundwater	10/21/16 12:15
S77030.17	Field Blank - 1	Groundwater	10/21/16 12:20
S77030.18	OBG-OS-MW1	Groundwater	10/21/16 13:25
S77030.19	OBG-OS-MW2	Groundwater	10/21/16 14:00
S77030.20	Equipment Blank -1	Groundwater	10/21/16 14:10
S77030.21	Trip Blank - 1	Groundwater	10/21/16 00:01

Analytical Laboratory Report

Lab Sample ID: S77030.01
Sample Tag: OBG-MW 1S
Collected Date/Time: 10/20/2016 09:00
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	10/28/16 11:50	CCM	7440-38-2	
Barium	0.174	mg/L	0.005	E200.8	10/28/16 11:50	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 11:50	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:50	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 11:50	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 03:11	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:11	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 03:11	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 03:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 03:11	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	75-27-4	

Lab Sample ID: S77030.01 (continued)
Sample Tag: OBG-MW 1S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 03:11	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:11	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:11	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.02
Sample Tag: OBG-MW 7S
Collected Date/Time: 10/20/2016 09:55
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic, Dissolved	0.019	mg/L	0.002	E200.8	10/28/16 11:52	CCM	7440-38-2	
Barium, Dissolved	0.235	mg/L	0.005	E200.8	10/28/16 11:52	CCM	7440-39-3	
Lead, Dissolved	Not detected	mg/L	0.003	E200.8	10/28/16 11:52	CCM	7439-92-1	
Selenium, Dissolved	Not detected	mg/L	0.005	E200.8	10/28/16 11:52	CCM	7782-49-2	
Zinc, Dissolved	Not detected	mg/L	0.005	E200.8	10/28/16 11:52	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 03:33	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:33	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 03:33	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 03:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 03:33	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	75-27-4	

Lab Sample ID: S77030.02 (continued)
Sample Tag: OBG-MW 7S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 03:33	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:33	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:33	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.03
Sample Tag: OBG-MW 7D
Collected Date/Time: 10/20/2016 11:00
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.032	mg/L	0.002	E200.8	10/28/16 11:56	CCM	7440-38-2	
Barium	0.095	mg/L	0.005	E200.8	10/28/16 11:56	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 11:56	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:56	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 11:56	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 02:50	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:50	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 02:50	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 02:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 02:50	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	75-27-4	

Lab Sample ID: S77030.03 (continued)
Sample Tag: OBG-MW 7D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 02:50	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:50	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:50	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.04
Sample Tag: OBG-MW 7D MS
Collected Date/Time: 10/20/2016 11:00
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.287	mg/L	0.002	E200.8	10/28/16 11:58	CCM	7440-38-2	
Barium	0.343	mg/L	0.005	E200.8	10/28/16 11:58	CCM	7440-39-3	
Lead	0.239	mg/L	0.003	E200.8	10/28/16 11:58	CCM	7439-92-1	
Selenium	0.242	mg/L	0.005	E200.8	10/28/16 11:58	CCM	7782-49-2	
Zinc	0.247	mg/L	0.005	E200.8	10/28/16 11:58	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	48	ug/L	10	SW5030C/8260C	10/26/16 23:37	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/26/16 23:37	WAT	67-64-1	1
Methyl iodide*	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	74-88-4	1
Carbon disulfide	49	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	45	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	1634-04-4	1
Acrylonitrile	45	ug/L	2	SW5030C/8260C	10/26/16 23:37	WAT	107-13-1	1
2-Butanone (MEK)	46	ug/L	25	SW5030C/8260C	10/26/16 23:37	WAT	78-93-3	1
Dichlorodifluoromethane	35	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	75-71-8	1
Chloromethane*	40	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	74-87-3	1
Vinyl chloride	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	75-01-4	1
Bromomethane	44	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	74-83-9	1
Chloroethane	42	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	75-00-3	1
Trichlorofluoromethane	42	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	75-69-4	1
1,1-Dichloroethene	42	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	75-35-4	1
Methylene chloride	46	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	75-09-2	1
trans-1,2-Dichloroethene	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	156-60-5	1
1,1-Dichloroethane	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	75-34-3	1
cis-1,2-Dichloroethene	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	156-59-2	1
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/26/16 23:37	WAT	109-99-9	1
Chloroform	46	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	67-66-3	1
Bromochloromethane	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	74-97-5	1
1,1,1-Trichloroethane	47	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/26/16 23:37	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/26/16 23:37	WAT	591-78-6	1
Carbon tetrachloride	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	56-23-5	1
Benzene	46	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	71-43-2	1
1,2-Dichloroethane	44	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	107-06-2	1
Trichloroethene	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	79-01-6	1
1,2-Dichloropropane	46	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	78-87-5	1

1-Spiked at 50mg/l

Lab Sample ID: S77030.04 (continued)
Sample Tag: OBG-MW 7D MS

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	47	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	75-27-4	1
Dibromomethane	47	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	74-95-3	1
cis-1,3-Dichloropropene	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	10061-01-5	1
Toluene	47	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	108-88-3	1
trans-1,3-Dichloropropene	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	10061-02-6	1
1,1,2-Trichloroethane	47	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	79-00-5	1
Tetrachloroethene	44	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene*	28	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	110-57-6	1
Dibromochloromethane	43	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	124-48-1	1
1,2-Dibromoethane	47	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	106-93-4	1
Chlorobenzene	44	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	630-20-6	1
Ethylbenzene	46	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	100-41-4	1
p,m-Xylene*	91	ug/L	2	SW5030C/8260C	10/26/16 23:37	WAT		1
o-Xylene*	46	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	95-47-6	1
Styrene	44	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	100-42-5	1
Isopropylbenzene	45	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	98-82-8	1
Bromoform	44	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	47	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	79-34-5	1
1,2,3-Trichloropropane*	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	96-18-4	1
n-Propylbenzene	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	103-65-1	1
Bromobenzene	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	108-86-1	1
1,3,5-Trimethylbenzene	43	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	108-67-8	1
tert-Butylbenzene	43	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	98-06-6	1
1,2,4-Trimethylbenzene	44	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	95-63-6	1
sec-Butylbenzene	43	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	135-98-8	1
p-Isopropyltoluene	42	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	99-87-6	1
1,3-Dichlorobenzene	43	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	541-73-1	1
1,4-Dichlorobenzene	44	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	106-46-7	1
1,2-Dichlorobenzene	45	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	95-50-1	1
1,2,3-Trimethylbenzene	44	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	526-73-8	1
n-Butylbenzene	42	ug/L	1	SW5030C/8260C	10/26/16 23:37	WAT	104-51-8	1
Hexachloroethane	42	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	46	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	96-12-8	1
1,2,4-Trichlorobenzene	42	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	120-82-1	1
1,2,3-Trichlorobenzene	43	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	87-61-6	1
Naphthalene	45	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	91-20-3	1
2-Methylnaphthalene	41	ug/L	5	SW5030C/8260C	10/26/16 23:37	WAT	91-57-6	1

1-Spiked at 50mg/l

Analytical Laboratory Report

Lab Sample ID: S77030.05
Sample Tag: OBG-MW 7D MSD
Collected Date/Time: 10/20/2016 11:00
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
4	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.290	mg/L	0.002	E200.8	10/28/16 11:59	CCM	7440-38-2	
Barium	0.339	mg/L	0.005	E200.8	10/28/16 11:59	CCM	7440-39-3	
Lead	0.241	mg/L	0.003	E200.8	10/28/16 11:59	CCM	7439-92-1	
Selenium	0.247	mg/L	0.005	E200.8	10/28/16 11:59	CCM	7782-49-2	
Zinc	0.244	mg/L	0.005	E200.8	10/28/16 11:59	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	49	ug/L	10	SW5030C/8260C	10/26/16 23:58	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/26/16 23:58	WAT	67-64-1	1
Methyl iodide*	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	74-88-4	1
Carbon disulfide	51	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	47	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	1634-04-4	1
Acrylonitrile	46	ug/L	2	SW5030C/8260C	10/26/16 23:58	WAT	107-13-1	1
2-Butanone (MEK)	46	ug/L	25	SW5030C/8260C	10/26/16 23:58	WAT	78-93-3	1
Dichlorodifluoromethane	37	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	75-71-8	1
Chloromethane*	42	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	74-87-3	1
Vinyl chloride	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	75-01-4	1
Bromomethane	45	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	74-83-9	1
Chloroethane	44	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	75-00-3	1
Trichlorofluoromethane	45	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	75-69-4	1
1,1-Dichloroethene	45	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	75-35-4	1
Methylene chloride	48	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	75-09-2	1
trans-1,2-Dichloroethene	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	156-60-5	1
1,1-Dichloroethane	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	75-34-3	1
cis-1,2-Dichloroethene	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	156-59-2	1
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/26/16 23:58	WAT	109-99-9	1
Chloroform	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	67-66-3	1
Bromochloromethane	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	74-97-5	1
1,1,1-Trichloroethane	51	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/26/16 23:58	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/26/16 23:58	WAT	591-78-6	1
Carbon tetrachloride	49	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	56-23-5	1
Benzene	50	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	71-43-2	1
1,2-Dichloroethane	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	107-06-2	1
Trichloroethene	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	79-01-6	1
1,2-Dichloropropane	49	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	78-87-5	1

1-Spiked at 50mg/l

Lab Sample ID: S77030.05 (continued)
Sample Tag: OBG-MW 7D MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	51	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	75-27-4	1
Dibromomethane	49	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	74-95-3	1
cis-1,3-Dichloropropene	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	10061-01-5	1
Toluene	50	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	108-88-3	1
trans-1,3-Dichloropropene	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	79-00-5	1
Tetrachloroethene	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene*	32	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	110-57-6	1
Dibromochloromethane	46	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	124-48-1	1
1,2-Dibromoethane	49	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	106-93-4	1
Chlorobenzene	46	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	630-20-6	1
Ethylbenzene	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	100-41-4	1
p,m-Xylene*	95	ug/L	2	SW5030C/8260C	10/26/16 23:58	WAT		1
o-Xylene*	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	95-47-6	1
Styrene	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	100-42-5	1
Isopropylbenzene	48	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	98-82-8	1
Bromoform	46	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	79-34-5	1
1,2,3-Trichloropropane*	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	96-18-4	1
n-Propylbenzene	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	103-65-1	1
Bromobenzene	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	108-86-1	1
1,3,5-Trimethylbenzene	46	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	108-67-8	1
tert-Butylbenzene	46	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	98-06-6	1
1,2,4-Trimethylbenzene	46	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	95-63-6	1
sec-Butylbenzene	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	135-98-8	1
p-Isopropyltoluene	47	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	99-87-6	1
1,3-Dichlorobenzene	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	541-73-1	1
1,4-Dichlorobenzene	48	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	106-46-7	1
1,2-Dichlorobenzene	49	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	95-50-1	1
1,2,3-Trimethylbenzene	49	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	526-73-8	1
n-Butylbenzene	47	ug/L	1	SW5030C/8260C	10/26/16 23:58	WAT	104-51-8	1
Hexachloroethane	47	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	51	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	96-12-8	1
1,2,4-Trichlorobenzene	47	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	120-82-1	1
1,2,3-Trichlorobenzene	48	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	87-61-6	1
Naphthalene	49	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	91-20-3	1
2-Methylnaphthalene	44	ug/L	5	SW5030C/8260C	10/26/16 23:58	WAT	91-57-6	1

1-Spiked at 50mg/l

Analytical Laboratory Report

Lab Sample ID: S77030.06
Sample Tag: OBG-MW 6S
Collected Date/Time: 10/20/2016 12:15
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.008	mg/L	0.002	E200.8	10/28/16 11:52	CCM	7440-38-2	
Barium	0.166	mg/L	0.005	E200.8	10/28/16 11:52	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 11:52	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:52	CCM	7782-49-2	
Zinc	0.006	mg/L	0.005	E200.8	10/28/16 11:52	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 03:54	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:54	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 03:54	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 03:54	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 03:54	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:54	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 03:54	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	75-27-4	

Lab Sample ID: S77030.06 (continued)
Sample Tag: OBG-MW 6S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 03:54	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 03:54	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 03:54	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.07
Sample Tag: OBG-MW 6D
Collected Date/Time: 10/20/2016 13:40
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.020	mg/L	0.002	E200.8	10/28/16 11:53	CCM	7440-38-2	
Barium	0.075	mg/L	0.005	E200.8	10/28/16 11:53	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 11:53	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:53	CCM	7782-49-2	
Zinc	0.013	mg/L	0.005	E200.8	10/28/16 11:53	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 04:16	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:16	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 04:16	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 04:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 04:16	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	75-27-4	

Lab Sample ID: S77030.07 (continued)
Sample Tag: OBG-MW 6D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 04:16	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:16	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:16	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.08
Sample Tag: OBG-MW 2S
Collected Date/Time: 10/20/2016 15:05
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.029	mg/L	0.002	E200.8	10/28/16 11:54	CCM	7440-38-2	
Barium	0.178	mg/L	0.005	E200.8	10/28/16 11:54	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 11:54	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:54	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 11:54	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 04:37	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:37	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 04:37	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 04:37	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 04:37	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:37	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:37	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	75-27-4	

Lab Sample ID: S77030.08 (continued)
Sample Tag: OBG-MW 2S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 04:37	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:37	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:37	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.09
Sample Tag: OBG-MW 2D
Collected Date/Time: 10/20/2016 16:25
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.043	mg/L	0.002	E200.8	10/28/16 11:55	CCM	7440-38-2	
Barium	0.277	mg/L	0.005	E200.8	10/28/16 11:55	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 11:55	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:55	CCM	7782-49-2	
Zinc	0.007	mg/L	0.005	E200.8	10/28/16 11:55	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 04:59	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:59	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 04:59	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 04:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 04:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 04:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	75-27-4	

Lab Sample ID: S77030.09 (continued)
Sample Tag: OBG-MW 2D

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	10061-01-5	
Toluene	1	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 04:59	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 04:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 04:59	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.10
Sample Tag: OBG-MW 5S
Collected Date/Time: 10/20/2016 17:30
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.003	mg/L	0.002	E200.8	10/28/16 11:56	CCM	7440-38-2	
Barium	1.28	mg/L	0.005	E200.8	10/28/16 11:56	CCM	7440-39-3	
Lead	0.004	mg/L	0.003	E200.8	10/28/16 11:56	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:56	CCM	7782-49-2	
Zinc	0.014	mg/L	0.005	E200.8	10/28/16 11:56	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 05:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 05:20	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 05:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 05:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 05:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 05:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 05:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	75-27-4	

Lab Sample ID: S77030.10 (continued)
Sample Tag: OBG-MW 5S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 05:20	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	541-73-1	
1,4-Dichlorobenzene	2	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:20	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.11
Sample Tag: Dup-1
Collected Date/Time: 10/20/2016 00:01
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.002	mg/L	0.002	E200.8	10/28/16 12:03	CCM	7440-38-2	
Barium	1.23	mg/L	0.005	E200.8	10/28/16 12:03	CCM	7440-39-3	
Lead	0.004	mg/L	0.003	E200.8	10/28/16 12:03	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 12:03	CCM	7782-49-2	
Zinc	0.014	mg/L	0.005	E200.8	10/28/16 12:03	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 05:41	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 05:41	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 05:41	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 05:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 05:41	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 05:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 05:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	75-27-4	

Lab Sample ID: S77030.11 (continued)
Sample Tag: Dup-1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 05:41	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	541-73-1	
1,4-Dichlorobenzene	1	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 05:41	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 05:41	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.12
Sample Tag: OBG- OS-MW3
Collected Date/Time: 10/21/2016 09:10
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.009	mg/L	0.002	E200.8	10/28/16 12:04	CCM	7440-38-2	
Barium	0.983	mg/L	0.005	E200.8	10/28/16 12:04	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 12:04	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 12:04	CCM	7782-49-2	
Zinc	0.007	mg/L	0.005	E200.8	10/28/16 12:04	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 06:03	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 06:03	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 06:03	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 06:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 06:03	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 06:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 06:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	75-27-4	

Lab Sample ID: S77030.12 (continued)
Sample Tag: OBG- OS-MW3

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 06:03	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:03	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:03	WAT	91-57-6	

Lab Sample ID: S77030.13
Sample Tag: OBG-OS-MW4
Collected Date/Time: 10/21/2016 10:00
Matrix: Groundwater
COC Reference: 093875

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	10/28/16 12:05	CCM	7440-38-2	
Barium	1.31	mg/L	0.005	E200.8	10/28/16 12:05	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 12:05	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 12:05	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 12:05	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 06:24	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 06:24	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 06:24	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 06:24	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 06:24	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 06:24	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 06:24	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	75-27-4	

Lab Sample ID: S77030.13 (continued)
Sample Tag: OBG-OS-MW4

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	106-93-4	
Chlorobenzene	7	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	630-20-6	
Ethylbenzene	2	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	100-41-4	
p,m-Xylene*	4	ug/L	2	SW5030C/8260C	10/27/16 06:24	WAT		
o-Xylene*	2	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	100-42-5	
Isopropylbenzene	6	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	96-18-4	
n-Propylbenzene	11	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	108-86-1	
1,3,5-Trimethylbenzene	1	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	98-06-6	
1,2,4-Trimethylbenzene	6	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	95-63-6	
sec-Butylbenzene	3	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	541-73-1	
1,4-Dichlorobenzene	5	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	95-50-1	
1,2,3-Trimethylbenzene	5	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	526-73-8	
n-Butylbenzene	2	ug/L	1	SW5030C/8260C	10/27/16 06:24	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	87-61-6	
Naphthalene	117	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	91-20-3	
2-Methylnaphthalene	49	ug/L	5	SW5030C/8260C	10/27/16 06:24	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.14
Sample Tag: OBG-OS-MW5
Collected Date/Time: 10/21/2016 10:45
Matrix: Groundwater
COC Reference: 093874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	10/28/16 12:05	CCM	7440-38-2	
Barium	2.21	mg/L	0.005	E200.8	10/28/16 12:05	CCM	7440-39-3	
Lead	0.009	mg/L	0.003	E200.8	10/28/16 12:05	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 12:05	CCM	7782-49-2	
Zinc	0.007	mg/L	0.005	E200.8	10/28/16 12:05	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/28/16 14:13	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/28/16 14:13	JGH	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/28/16 14:13	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/28/16 14:13	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/28/16 14:13	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/28/16 14:13	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/28/16 14:13	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	75-27-4	

Lab Sample ID: S77030.14 (continued)
Sample Tag: OBG-OS-MW5

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	106-93-4	
Chlorobenzene	7	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/28/16 14:13	JGH		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	96-18-4	
n-Propylbenzene	1	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	541-73-1	
1,4-Dichlorobenzene	3	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/28/16 14:13	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/28/16 14:13	JGH	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.15
Sample Tag: OBG-MW 3S
Collected Date/Time: 10/21/2016 12:15
Matrix: Groundwater
COC Reference: 093874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.007	mg/L	0.002	E200.8	10/28/16 12:06	CCM	7440-38-2	
Barium	0.162	mg/L	0.005	E200.8	10/28/16 12:06	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 12:06	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 12:06	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 12:06	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 07:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:07	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 07:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 07:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 07:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	75-27-4	

Lab Sample ID: S77030.15 (continued)
Sample Tag: OBG-MW 3S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 07:07	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:07	WAT	91-57-6	

Lab Sample ID: S77030.16
Sample Tag: OBG-MW 3S Collocated
Collected Date/Time: 10/21/2016 12:15
Matrix: Groundwater
COC Reference: 093874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.007	mg/L	0.002	E200.8	10/28/16 12:07	CCM	7440-38-2	
Barium	0.157	mg/L	0.005	E200.8	10/28/16 12:07	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 12:07	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 12:07	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 12:07	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 07:28	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:28	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 07:28	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 07:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 07:28	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	75-27-4	

Lab Sample ID: S77030.16 (continued)
Sample Tag: OBG-MW 3S Collocated

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 07:28	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:28	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:28	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.17
Sample Tag: Field Blank - 1
Collected Date/Time: 10/21/2016 12:20
Matrix: Groundwater
COC Reference: 093874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	10/28/16 11:48	CCM	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	10/28/16 11:48	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 11:48	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:48	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 11:48	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 01:46	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 01:46	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 01:46	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 01:46	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 01:46	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 01:46	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 01:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	75-27-4	

Lab Sample ID: S77030.17 (continued)
Sample Tag: Field Blank - 1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 01:46	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 01:46	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 01:46	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.18
Sample Tag: OBG-OS-MW1
Collected Date/Time: 10/21/2016 13:25
Matrix: Groundwater
COC Reference: 093874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.036	mg/L	0.002	E200.8	10/28/16 12:08	CCM	7440-38-2	
Barium	1.00	mg/L	0.005	E200.8	10/28/16 12:08	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 12:08	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 12:08	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 12:08	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 07:50	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:50	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 07:50	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 07:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 07:50	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 07:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	75-27-4	

Lab Sample ID: S77030.18 (continued)
Sample Tag: OBG-OS-MW1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 07:50	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 07:50	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 07:50	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.19
Sample Tag: OBG-OS-MW2
Collected Date/Time: 10/21/2016 14:00
Matrix: Groundwater
COC Reference: 093874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	0.061	mg/L	0.002	E200.8	10/28/16 12:09	CCM	7440-38-2	
Barium	0.278	mg/L	0.005	E200.8	10/28/16 12:09	CCM	7440-39-3	
Lead	0.006	mg/L	0.003	E200.8	10/28/16 12:09	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 12:09	CCM	7782-49-2	
Zinc	0.012	mg/L	0.005	E200.8	10/28/16 12:09	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 08:11	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 08:11	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 08:11	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 08:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 08:11	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 08:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 08:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	75-27-4	

Lab Sample ID: S77030.19 (continued)
Sample Tag: OBG-OS-MW2

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 08:11	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 08:11	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 08:11	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.20
Sample Tag: Equipment Blank -1
Collected Date/Time: 10/21/2016 14:10
Matrix: Groundwater
COC Reference: 093874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	5.4	IR
1	125ml Plastic	HNO3	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			SW3015A	10/28/16 09:30	CCM		
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	10/28/16 11:49	CCM	7440-38-2	
Barium	Not detected	mg/L	0.005	E200.8	10/28/16 11:49	CCM	7440-39-3	
Lead	Not detected	mg/L	0.003	E200.8	10/28/16 11:49	CCM	7439-92-1	
Selenium	Not detected	mg/L	0.005	E200.8	10/28/16 11:49	CCM	7782-49-2	
Zinc	Not detected	mg/L	0.005	E200.8	10/28/16 11:49	CCM	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 02:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:07	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 02:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 02:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 02:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	75-27-4	

Lab Sample ID: S77030.20 (continued)
Sample Tag: Equipment Blank -1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 02:07	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:07	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S77030.21
Sample Tag: Trip Blank - 1
Collected Date/Time: 10/21/2016 00:01
Matrix: Groundwater
COC Reference: 093874

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
pH check for VOCs*	<2	STD Units		N/A	10/27/16 10:00	JML		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether*	Not detected	ug/L	10	SW5030C/8260C	10/27/16 02:29	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:29	WAT	67-64-1	
Methyl iodide*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW5030C/8260C	10/27/16 02:29	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW5030C/8260C	10/27/16 02:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	75-71-8	
Chloromethane*	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	156-59-2	
Tetrahydrofuran*	Not detected	ug/L	90	SW5030C/8260C	10/27/16 02:29	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW5030C/8260C	10/27/16 02:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	127-18-4	
trans-1,4-Dichloro-2-butene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	106-93-4	

Lab Sample ID: S77030.21 (continued)
Sample Tag: Trip Blank - 1

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	100-41-4	
p,m-Xylene*	Not detected	ug/L	2	SW5030C/8260C	10/27/16 02:29	WAT		
o-Xylene*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	79-34-5	
1,2,3-Trichloropropane*	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW5030C/8260C	10/27/16 02:29	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW5030C/8260C	10/27/16 02:29	WAT	91-57-6	

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

093875

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Tony Finch
COMPANY: O'Brien & Gere
ADDRESS: 37000 Grand River Ste 260
CITY: Farmington Hills STATE: MI ZIP CODE: 48335
PHONE NO.: 248-477-5701 FAX NO.: 248-477-5960 P.O. NO.: 116000361
E-MAIL ADDRESS: Anthony.finch@OBG.com QUOTE NO.:

INVOICE TO

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

PROJECT NO./NAME: RACER Hemphill Rd Industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Schneider

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

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL - As, Ba, Pb, Se, Zn	DISSOLVED - As, Ba, Pb, Se, Zn
77030.01	10/20/16	900	OBG - MW 1S	GW	4		3	1					X	X	
.02		955	OBG - MW 7S										X		X
.03		1100	OBG - MW 7D										X	X	
.04/.05		1100	OBG - MW 7D (MS/MSD)		10		8	2					X	X	
.06		1215	OBG - MW 6S		4		3	1					X	X	
.07		1340	OBG - MW 6D										X	X	
.08		1505	OBG - MW 2S										X	X	
.09		1625	OBG - MW 2D										X	X	
.10		1730	OBG - MW 5S										X	X	
.11		—	DUP-1										X	X	
.12	10/21/16	910	OBG - OS - MW 3										X	X	
.13		1000	OBG - OS - MW 4										X	X	

*Dissolved samples are field filtered

RELINQUISHED BY: SIGNATURE/ORGANIZATION	OBG	X Sampler	DATE 10/21/16	TIME 1575
RECEIVED BY: SIGNATURE/ORGANIZATION			DATE 10/21/16	TIME 15:15
RELINQUISHED BY: SIGNATURE/ORGANIZATION			DATE 10/21/16	TIME 16:20
RECEIVED BY: SIGNATURE/ORGANIZATION			DATE 10/21/16	TIME 1620

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.4

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

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

093874

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Tony Finch
COMPANY: O'Brien & Gere
ADDRESS: 37000 Grand River Ste 260
CITY: Farmington Hills STATE: MI ZIP CODE: 48335
PHONE NO.: 248-477-5701 FAX NO.: 248-477-5962 P.O. NO.: 11600361
E-MAIL ADDRESS: Anthony.finch@OBG.com QUOTE NO.:

INVOICE TO

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

PROJECT NO./NAME: RACER Hemphill Rd industrial Land
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Kevin Sumrender

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

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

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

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	TOTAL - As, Ba, Pb, Se, Zn
77030.14	10/21/16	1045	OBG-OS-MW 5	GW	4		3	1					X	X
.15		1215	OBG-MW 35	GW	4		3	1					X	X
.16		1215	OBG-MW 35 collocated	GW	4		3	1					X	X
.17		1220	Field Blank-1	QC	4		3	1					X	X
.18		1325	OBG-OS-MW 1	GW	4		3	1					X	X
.19		1400	OBG-OS-MW 2	GW	4		3	1					X	X
.20		1410	Equipment Blank-1	QC	4		3	1					X	X
.21	↓	—	Trip Blank-1	QC	2		2						X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] OBG (Sampler) DATE: 10/21/16 TIME: 1515
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 10/21/16 TIME: 1515

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 10/21/16 TIME: 1620
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 10/21/16 TIME: 1620

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.4

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

Rev. 5.18.12