



611 S. Irvine Avenue, Sharon, PA 16146
phone 724.347.2101 fax 724.347.2139

REMEDIAL ACTION PROGRESS REPORT FOURTH QUARTER 2016

GRAFT OIL COMPANY
HONEY BEAR MINI-MART
200 McKean Street
Kittanning, PA 16201
Facility I.D. No. 03-07315
USTIF No. 2002-0197(M)

Prepared for:

Pennsylvania Department of Environmental Protection
400 Waterfront Drive
Pittsburgh, PA 15222

Submitted by:

Sara Giordano and Paul Rogers



Honey Bear Mini-Mart
200 McKean Street, Kittanning, PA 16201
Fourth Quarter 2016 Remedial Action Progress Report
Report Date: January 2017

Facility ID No. 03-07315
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PADEP Contact: Mark Shaheen

INTRODUCTION

Insite Group, Inc. (IGI), on behalf of Graft Oil Company (Graft Oil), provides this Remedial Action Progress Report (RAPR) summarizing activities and findings for the referenced period at the Honey Bear Mini-Mart located at 200 McKean Street, Kittanning, Pennsylvania (property). This RAPR includes a summary of site activities completed during the period, data interpretation, proposed future actions, a historical summary, and a description of site geology. A topographic map is provided as **Figure 1**. A site map is provided as **Figure 2**.

The site is defined by the extent of the monitoring well network. Monitoring wells **MW-3**, **MW-4**, **MW-8**, **MW-9**, **MW-10**, and **MW-12** are Point of Compliance (POC) wells and are shown in bold font.

Tasks completed this quarter include quarterly groundwater compliance monitoring.

CONTAMINANTS OF CONCERN

The contaminant of concern is unleaded gasoline. The chemicals of concern are defined by the PADEP's Pre-2008 short list of parameters for unleaded gasoline: benzene, ethylbenzene, cumene, MTBE, naphthalene, toluene, and total xylenes.

<u>Media</u>	<u>Cleanup Standard</u>	<u>Parameters Exceeding the Cleanup Standard</u>
Soil	SHS-RUA	Benzene, ethylbenzene, MTBE, naphthalene, and toluene.
Groundwater	SHS-RUA	Benzene, ethylbenzene, MTBE, and naphthalene.

SITE ACTIVITIES COMPLETED DURING THIS PERIOD:

Quarterly Groundwater Compliance Monitoring

Two unconsolidated groundwater zones are monitored at the site. The first is a shallow zone to approximately 24 feet below ground surface (bgs) and the second is a deeper zone screened from approximately 25 to 35 feet bgs. Monitoring wells MW-1 through **MW-12** are screened in the shallow zone and monitoring wells MW-8D, MW-10D, and MW-12D are screened in the deeper zone.

Quarterly groundwater compliance monitoring was completed on December 7, 2016, in accordance with the groundwater sampling plan. Depth to water measurements were recorded for all monitoring wells screened in the shallow zone. Groundwater samples were collected from eight monitoring wells (MW-1, MW-2, **MW-3**, **MW-4**, **MW-8**, **MW-9**, **MW-10**, and **MW-12**). One duplicate sample was collected for quality assurance purposes. The samples were submitted for laboratory analysis of unleaded gasoline parameters by method

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5030B/8260B. Field measurements of dissolved oxygen (DO), oxidation-reduction potential (ORP), and pH were recorded for all wells that were sampled.

Depth to water measurements and calculated groundwater elevations are summarized in **Table 1.0**. The current groundwater analytical results and groundwater chemistry data are summarized in **Tables 2.0 and 3.0**, respectively. The laboratory analytical report for the current quarter is provided as **Attachment A**. A groundwater contour map for the shallow zone is provided as **Figure 3**, and dissolved-phase contaminant isoconcentration maps are provided as **Figure 4, 5 and 6**.

Sampling has been discontinued for monitoring wells MW-5, MW-6, MW-7, and MW-11 in the shallow zone, and for all three wells in the deep zone (MW-8D, MW-10D, and MW-12D). Concentrations of unleaded gasoline chemicals of concern in these wells had not exceeded their respective SHS-RUA values for eight or more consecutive quarters.

Data Transmission

In accordance with the access agreement, a summary of analytical results are submitted quarterly to the Kittanning Area Post Office for monitoring wells located on their property (**MW-3, MW-4, MW-6, MW-7, MW-12, and MW-12D**).

RESULTS

Quarterly Groundwater Monitoring

- The benzene concentration exceeds the SHS-RUA value in MW-1 (86.5 ug/L), MW-2 (1,450 ug/L), **MW-8** (380 ug/L), **MW-9** (98.4 ug/L), **MW-10** (206 ug/L), and **MW-12** (8.6 ug/L).
- The MTBE concentration exceeds the SHS-RUA value in **MW-8** (131 ug/L).
- The naphthalene concentration exceeds the SHS-RUA value in MW-1 (125 ug/L) and **MW-8** (121 ug/L).
- Contaminant concentrations do not exceed their respective SHS-RUA values in **MW-3** or **MW-4**.
- DO concentrations in site monitoring wells range from less than 1.0 to 3.5 ppm.

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TREND GRAPHS

Contaminant concentration trend graphs for the source area and downgradient wells are provided as **Figures 7 and 8**, respectively. No increasing trends are apparent.

CONCLUSIONS

Groundwater contaminant concentrations exceed one or more of the SHS-RUA values in six of the eight monitoring wells sampled at the site, including four of the six POC wells. Historical analytical data show that soil impacts also remain at the site. Additional remediation is warranted.

PROPOSED FUTURE ACTIONS

- Implement the Remedial Action Plan.
- Continue quarterly groundwater compliance monitoring.

RELEASES

April 19, 2002 Unleaded gasoline	A release of unleaded gasoline was reported when soil and groundwater impacts were identified during field activities conducted prior to a planned upgrade of the former UST system. The release occurred in product piping at the dispenser island and moved horizontally through the piping trench to the UST cavity where it migrated downward to the groundwater table and formed the dissolved-phase plume.
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POTENTIAL RECEPTORS

Surface Water:	The Allegheny River is located approximately 1,000 feet southwest of the site. As the local groundwater receptor, it is a potential sensitive receptor.
Water Well Survey:	A search of the PaGWIS database identified one water well within 0.5 miles of the site. The well is located 0.3 miles south-southeast of the site and is reportedly used for industrial purposes. This well is not considered a potential sensitive receptor due to its easterly location.

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Municipal Water Supply:

The public water supply is provided by the Pennsylvania-American Water Company, which obtains water from the Allegheny River from a point located downstream from the site. The municipal water supply is not a potential sensitive receptor.

SITE HISTORY:

- 1989: Graft Oil purchased the property.
- April 2002: IGI drilled and installed monitoring well MW-1 adjacent to the UST cavity to determine the depth to groundwater in preparation for the removal of existing USTs and installation of new USTs. Soil and groundwater analytical results confirmed a release, and a release was reported to the PADEP.
- June 2002: Four gasoline USTs, including Tanks 001 through 004, were permanently removed. Grossly contaminated soils were observed under the piping at the dispenser island, along the piping trench and at the corner of the UST cavity where the piping trench entered the UST cavity. The tanks appeared to be in good condition. Product piping was determined to be the cause of the release. Approximately 473 tons of contaminated soil was thermally treated at Soil Remediation, Inc. in Lowellville, Ohio.
- June-July 2002: One soil boring / monitoring well, B-2 / MW-2, was drilled and installed to investigate soil and groundwater in the suspected downgradient direction. During the UST excavation, IGI also installed subsurface remedial infrastructure for future use in a groundwater pump and treat system. Three extraction wells, EW-1 through EW-3, and two vertical injection wells, IW-1 and IW-2, were installed in for use in pilot testing and remediation. Two horizontal slotted pipes were installed at the bottom of the UST cavity, and two horizontal slotted pipes were under the former dispensers.
- June 2003: Following the new sanitary sewer connection on the property during the summer 2002 excavation project, the groundwater elevation dropped in MW-1, making it necessary to over-drill the well. MW-2 was also redrilled at this time. Monitoring wells MW-1 and MW-2 were over-drilled to depths of 22-feet and 25-feet bgs, respectively.
- August 2003: IGI completed a step-drawdown pump test and a constant rate pump test using extraction well EW-1.
- September 2003: Slug tests were completed in monitoring well MW-2 and extraction well EW-1. The calculated permeability for slug-in and slug-out tests in MW-2 is 4 and 40 feet/day, respectively. The calculated permeability for slug-in and slug-out tests in EW-1 was 20 feet/day for both.
- April 2004: Because the extent of impact to soil or groundwater was not defined during the previous investigations, additional soil borings and monitoring wells were completed.

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On April 14 and 15, 2004, three additional monitoring wells, MW-3, MW-4 and MW-5, were installed on adjacent properties. Monitoring wells MW-3 and MW-4 were installed in the sidewalk in front of the Borough of Kittanning Post Office, located immediately southwest of the Graft Oil property. Monitoring well MW-5 was installed in the sidewalk upgradient and east of the Graft Oil property. The extent of impact to soil was defined during this investigation.

- April 2004: IGI collected samples of indoor air in the Honey Bear Mini-Mart convenience store to assess vapor intrusion pathways.
- May 2004: Because the extent of impact to groundwater was not fully defined during the previous investigation, additional monitoring wells, MW-6 and MW-7 were installed on an adjacent property in the downgradient direction. The extent of impact to groundwater was defined during this investigation.
- August 2004: Three feet of separate phase liquid (SPL) was identified in EW-2. This was an unexpected finding, considering that no evidence of SPL had been observed in soil or groundwater during drilling events following soil excavation. SPL recovery was initiated.
- September-October 2004: A groundwater pump and treat system was installed at the site and began operation.
- February 2005: Soil gas monitoring points, GP-1, GP-2 and GP-3, were installed in proximity to the source area for soil gas sampling to assess vapor intrusion pathways.
- March 2005: Soil vapor samples were collected from soil vapor monitoring wells GP-1 and GP-3.
- June 2005: IGI completed a geophysical survey of the subsurface of the Graft Oil property to map the extent of SPL, using a time-domain electromagnetic terrain conductivity meter (EM-61) and 250-mHz Ground Penetrating Radar. The survey results indicated that the SPL is localized in the immediate area around EW-2.
- September 2006: A Site Characterization Report was submitted to the PADEP.
- November 2006: A Remedial Action Plan was submitted to the PADEP.
- March 2010: The pump and treat system was shut down. Between September 2004 and March 2010, approximately 2,065,728 gallons of impacted groundwater was extracted from three wells (EW-1, EW-2, EW-3), treated using liquid granular activated carbon and followed by a permitted discharge to the sanitary sewer under interim remedial action. Approximately 25.5 pounds of mass was removed.

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- April 2010: Approximately 82 gallons of SPL was recovered at the site between August 2004 and April 2010 during interim remedial action. No measurable SPL has collected since April 2010.
- February 2011: A total of 30 soil samples were collected from 13 soil borings (P-1 through P-13). The purpose of the investigation was to evaluate the horizontal and vertical extent of soil impact and to collect samples for a bench top treatability study using Klozur® Persulfate.
- June 2012: Seven pilot test wells (IP-1, PT-2S, PT-4S, PT-8S, PT-2N, PT-4N, PT-8N) and two monitoring wells (MW-8 and MW-9) were installed. The pilot test wells were completed in order to collect baseline soil data for a pilot test using Klozur® Persulfate. MW-8 and MW-9 were installed as point-of-compliance monitoring wells adjacent to McKean Street.
- June 2012: A pilot test was completed using Klozur® Persulfate. Approximately 500 gallons of Klozur® Persulfate solution was injected into IP-1.
- July 2012: A total of 26 soil samples were collected to determine the effectiveness of Klozur® Persulfate on gasoline impacted soil near IP-1.
- October 2013: At the request of the PADEP case manager, six additional monitoring wells were installed, including three in the shallow zone of the unconsolidated aquifer (MW-10, MW-11, and MW-12) and three in the deeper zone of the unconsolidated aquifer (MW-8D, MW-10D, and MW-12D). The shallow wells are screened from 7 to 22 feet, and the deeper wells are screened from 25 to 35 feet bgs.
- October 2013: Slug tests were completed on monitoring wells MW-10, MW-12, MW-8D, and MW-12D. Hydraulic conductivity was calculated to be 0.7 feet/day (MW-12), 3 feet/day (MW-10 and MW-8D), and 30 feet/day (MW-12D). The calculated average hydraulic conductivity in the shallow zone is 4 feet/day and 17 feet/day in the deeper zone.
- March 2014: A DPVE pilot test was conducted for wells IW-1 (screened from 10 to 20 feet bgs) and MW-8 (screened from 12 to 22 feet bgs). The duration of the test exceeded 7 hours for each well. The results indicate that approximately 4.5 scfm of soil vapors could be extracted from the test wells at a vacuum of 20 inches of mercury. Vacuum influence was detected at approximately 63 to 64 feet from each test well. Groundwater drawdown was observed approximately 63 feet from IW-1 and 14 feet from MW-8.
- August 2014: Soil vapor samples were collected from VP-1, VP-2, and VP-3.
- October 2014: An SCR/RAP was submitted to the PADEP.

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- November 2014: The SCR/RAP was approved by the PADEP.
- 2015-2016: IGI obtained subcontractor bids and prepared a detailed cost-to-completion estimate in preparation for RAP implementation. Multiple revisions to the scope-of-work and DPVE system design were made and revised cost estimates were assembled at the request of USTIF and USTIF's third party reviewer.

GEOLOGY

Regional Geology and Hydrogeology

This area is located within the Pittsburgh Low Plateau Section of the Appalachian Plateau Province, which is a large folded belt of mountains underlain by folded sedimentary rock. The Province stretches north 1,200 miles from Alabama to New York State. The hilltops and ridges reflect the surface of what once was a plateau. Most strata in this province are gently folded with anticlinal and synclinal axes trending to the northeast.¹

Bedrock below the Allegheny River and the Borough of Kittanning is of Pennsylvanian Age. There are three rock formations, which are exposed on the slopes of the valley. The Pottsville Group consists mostly of gray sandstone and conglomerate with thin beds of shale, claystone, limestone and coal. This unit outcrops about one mile north of Kittanning in the bottom of the river valley. The Pottsville Group is overlain by the rocks of the Allegheny Group, which is composed of cyclic sequences of sandstone, shale, limestone, clay and coal. This rock unit contains commercial deposits of limestone (Vanport Limestone) and coal (Freeport, Kittanning, Brookville, and Clarion coals). The Glenshaw Formation, part of the Conemaugh Group, caps the hillsides. This unit is composed of cyclic sequences of shale, sandstone, redbeds and thin limestone. The redbeds are susceptible to landslides.²

In the vicinity of the Borough of Kittanning, alluvial deposits and terraces along this section of the Allegheny River are generally narrow and restricted to the inner bends of meanders. Unconsolidated materials consist of near-surface interbedded silts and clays with underlying coarser sands and gravels. The silts and clays (point bar and overbank deposits) vary rapidly over short vertical and horizontal distances. Coarse sands and gravels reflect the past position of the riverbed and may rest on bedrock.

Structurally, the Borough of Kittanning is located on the northwest limb of an anticline whose axis trends northeast-southwest. The dip of the rock is northwest at about 2 degrees.

¹ Briggs, R. P. "Chapter 30 – Appalachian Plateaus Province and the Eastern Lake Section of the Central Lowlands Province." *The Geology of Pennsylvania*. Ed. Charles H. Shultz. Pennsylvania Geological Survey and Pittsburgh Geological Society, 1999.

² Berg, T. M., Edmunds, W. E., Geyer, A. R., and others, compilers, 1980, Geologic map of Pennsylvania (2nd ed.): Pennsylvania Geological Survey, 4th ser., Map 1, 3 sheets, scale 1:250,000.

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Regionally the groundwater aquifer occurs in bedrock where it is stored in fractures and joints. The bedrock immediately below the Borough of Kittanning is the Allegheny Group. Strata from this formation are capable of yielding between 25 and 350 gallons per minute. Yields in the underlying Pottsville Group range from 13 to 50 gallons per minute. Groundwater flow in the bedrock in the vicinity of Kittanning is toward the Allegheny River from the uplands. The groundwater aquifer also occurs in the alluvial deposits on the banks of the Allegheny River. These channel sands and gravels may provide acceptable amounts of water for commercial or residential use. A well drilled in sand and gravel in 1926, in the southern part of Kittanning had a reported yield of 150 gallons per minute.

Rivers act as regional discharge zones for surrounding aquifers. In dissected terrain, unconsolidated alluvial deposits in the valley bottoms typically intercept discharge from the surrounding hillsides and respond to changing water levels in the river, resulting in complex flow regimens.

Site Geology and Hydrogeology

Test borings and excavations at the facility identified fill deposits that may have been associated with past construction. Some of this material was excavated and disposed and the area backfilled with clean fill during interim remediation.

The naturally occurring soils below the site range from uppermost silty clay that grade downward to a fine-grained sand with a basal sand and gravel. The densities of the soils are typically loose to medium dense. Bedrock was not encountered.

Depth to first groundwater in the source area generally ranges seasonally from 12 to 18 feet bgs. Two unconsolidated zones are monitored at the site: 10 to 20 feet and 25 to 35 feet. Groundwater in both zones flows southwest toward the Allegheny River. The hydraulic gradient in the shallow zone ranges from 0.0020 to 0.0027 ft/ft. The hydraulic gradient in the deeper zone is approximately 0.014 ft/ft.

Surface Water

The property is located in the Ohio River Basin, the Central Allegheny Sub basin (Sub basin Number 17), Cowanshannock - Crooked Creeks Watershed (Watershed E). The land surface rises away from the Allegheny River channel, directing regional surface flow in this basin to the river channel. The Allegheny River is a regional groundwater discharge zone. The Allegheny River is located approximately 1,000 feet southwest of the property.

Surface water runoff from the property is directed into storm sewer catch basins along Arch and McKean Streets. The storm sewer catch basins direct water to a combined storm and sanitary sewer system.

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PERMITS / ACCESS AGREEMENTS

- Access Agreements with the Kittanning Post Office, the First Baptist Church, and a neighboring property owner to the northeast for access to monitoring wells installed on these properties.

MONITORING

Shallow Zone:	Twelve, two-inch diameter PVC monitoring wells: MW-1, MW-2, MW-3, MW-4 , MW-5, MW-6, MW-7, MW-8, MW-9, MW-10 , MW-11, and MW-12 .
Deep Zone:	Three 2-inch diameter PVC monitoring wells, MW-8D, MW-10D, and MW-12D.
Gauging Frequency:	Quarterly at all monitoring wells.
Sampling Frequency:	Quarterly at select monitoring wells.
Analytical Laboratories Used:	ESC Lab Sciences, Mt. Juliet, TN.
Analytical Method Used:	Pace Analytical Services, Inc., Greensburg, PA. EPA Method 5030B/8260B for unleaded gasoline parameters.

ATTACHMENTS

FIGURE 1: Topographic Map
FIGURE 2: Site Map
FIGURE 3: Groundwater Contour Map (Shallow Zone)
FIGURE 4: Benzene Isoconcentration Map (Shallow Zone)
FIGURE 5: MTBE Isoconcentration Map (Shallow Zone)
FIGURE 6: Naphthalene Isoconcentration Map (Shallow Zone)
FIGURE 7: Contaminant Concentration Trend Graphs (Source Area)
FIGURE 8: Contaminant Concentration Trend Graphs (Downgradient Wells)

TABLE 1.0: Monitoring Well Gauging Data
TABLE 2.0: Current Groundwater Analytical Results
TABLE 3.0: Groundwater Chemistry
TABLE 4.0: Historical Groundwater Analytical Results

ATTACHMENT A: Laboratory Analytical Report

FIGURES

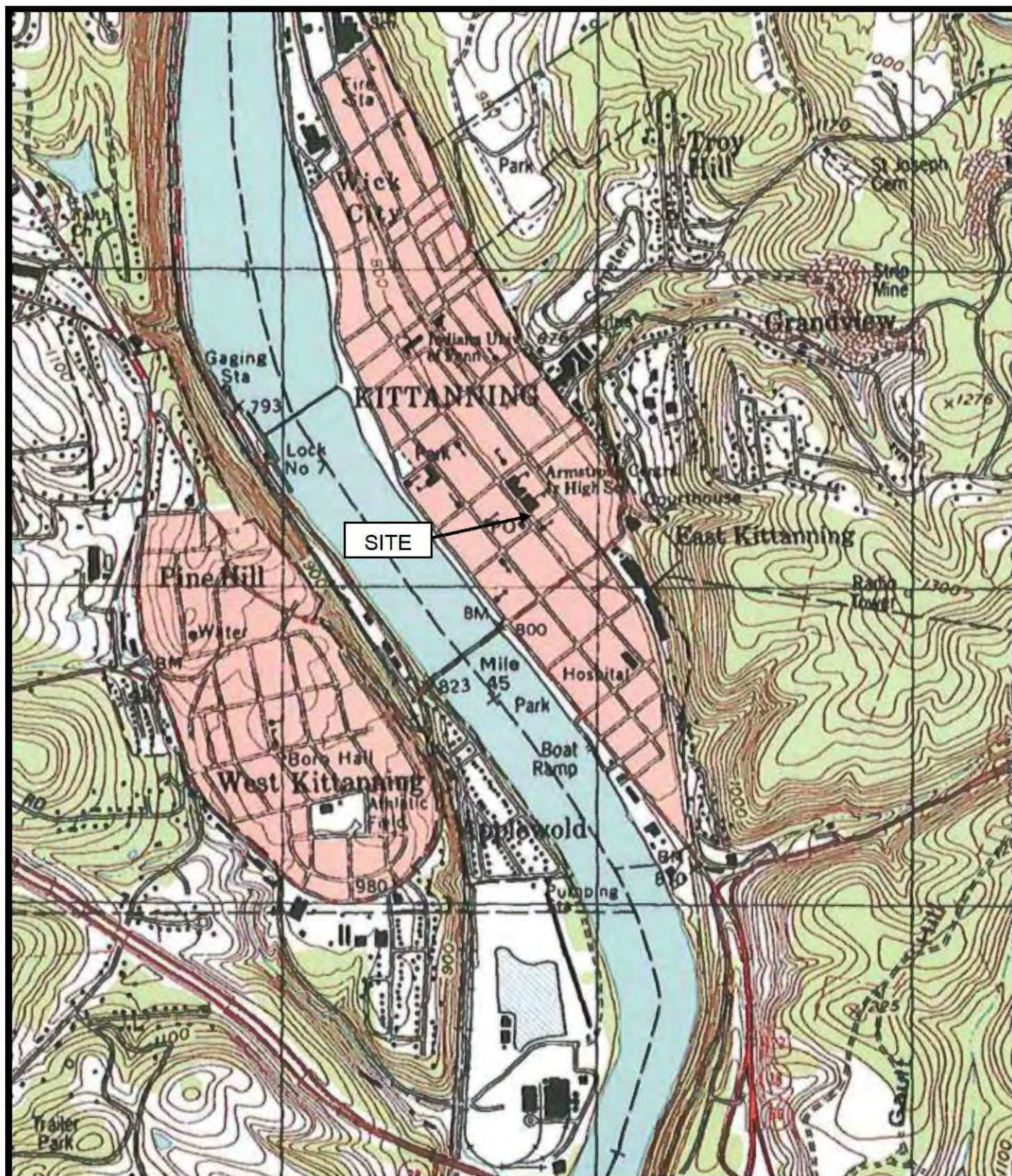
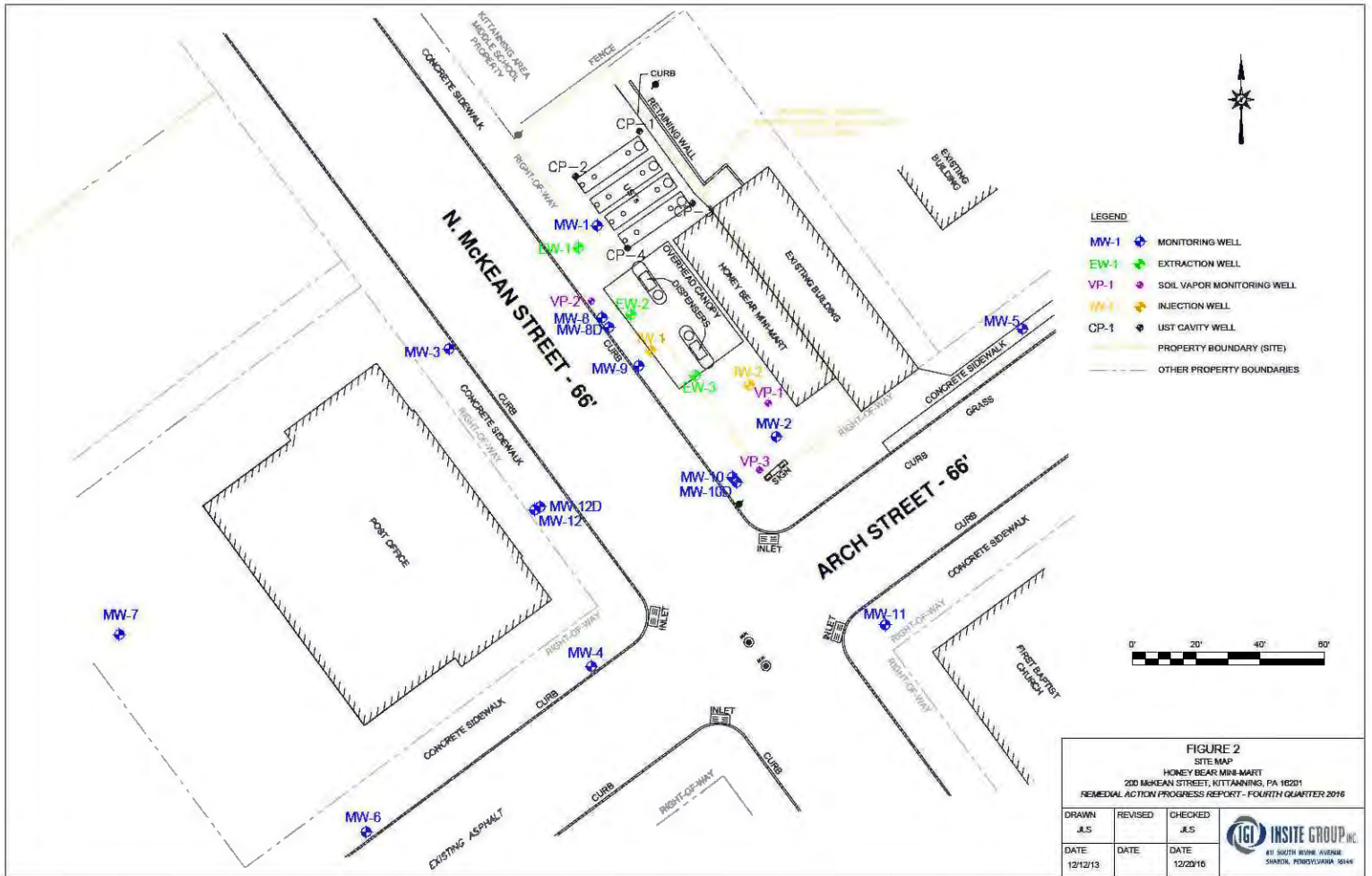
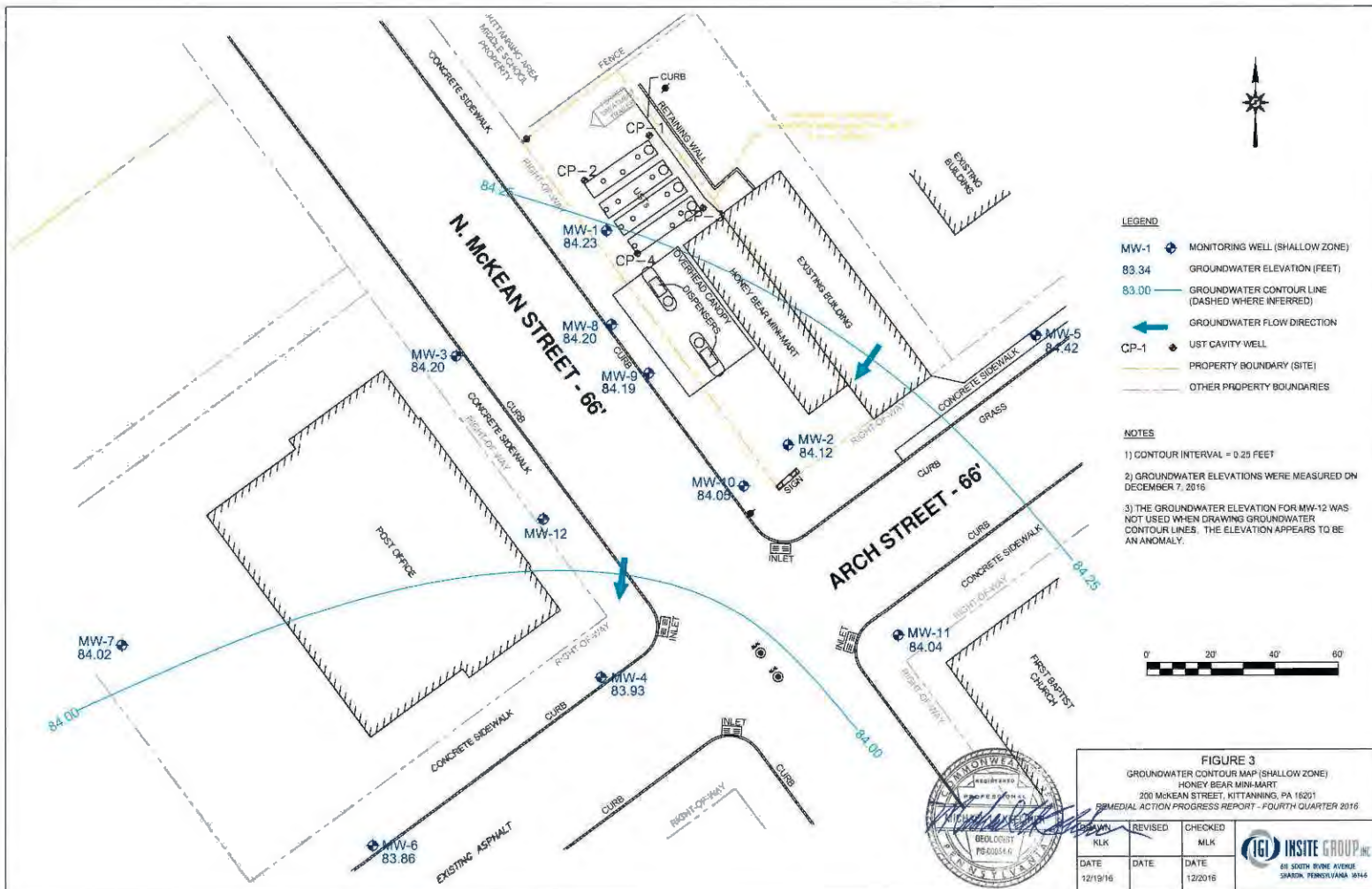
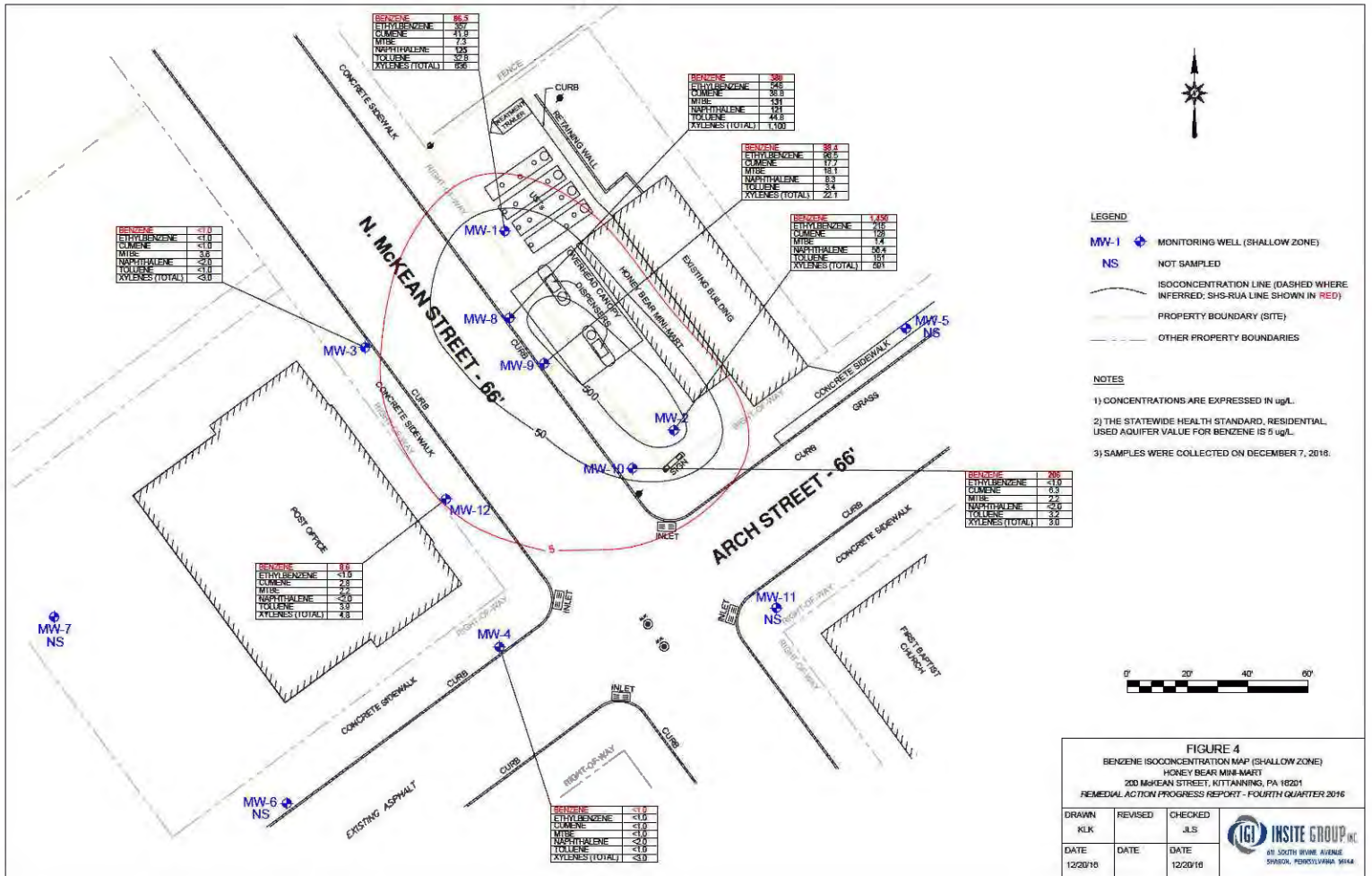
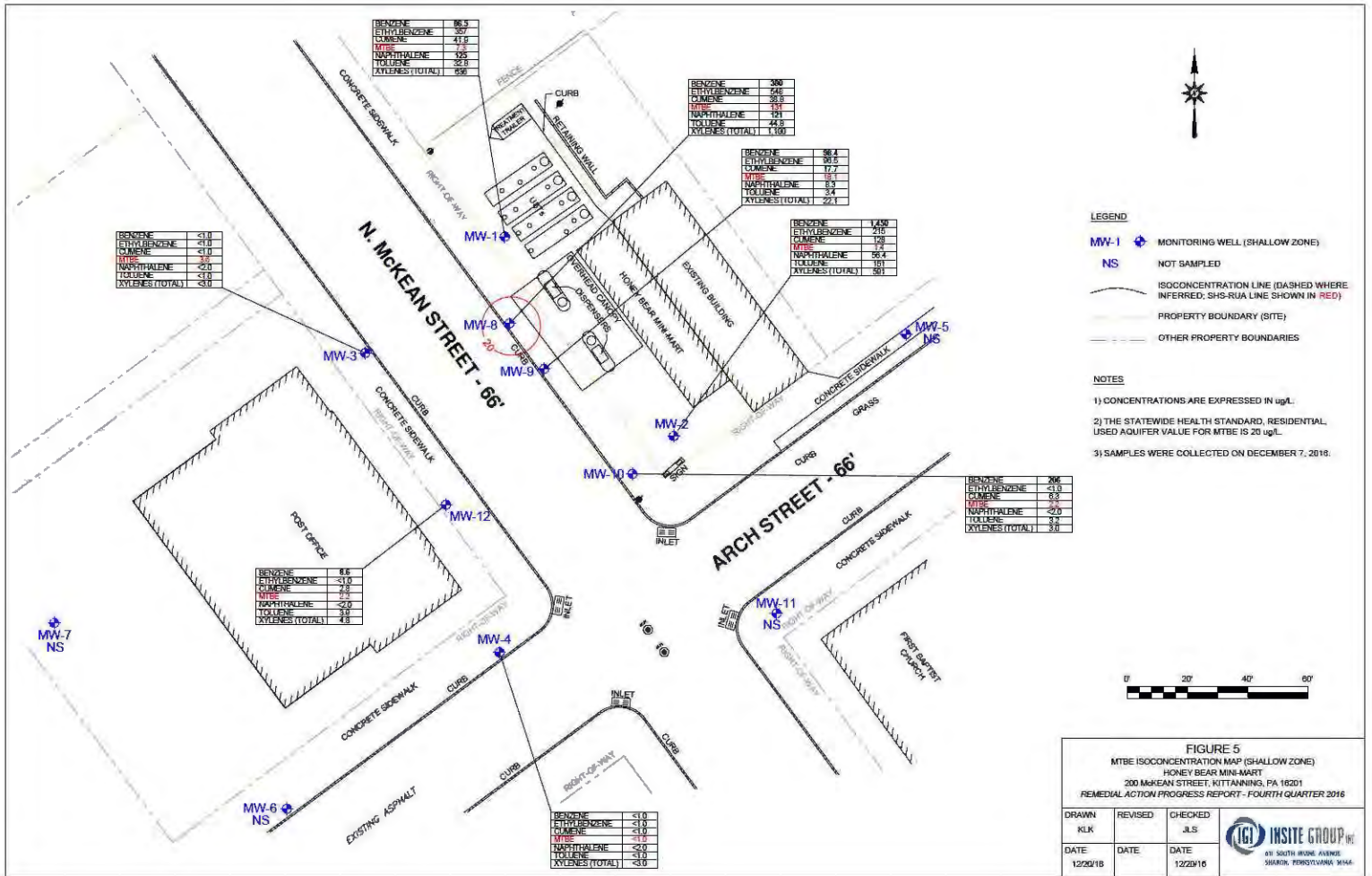


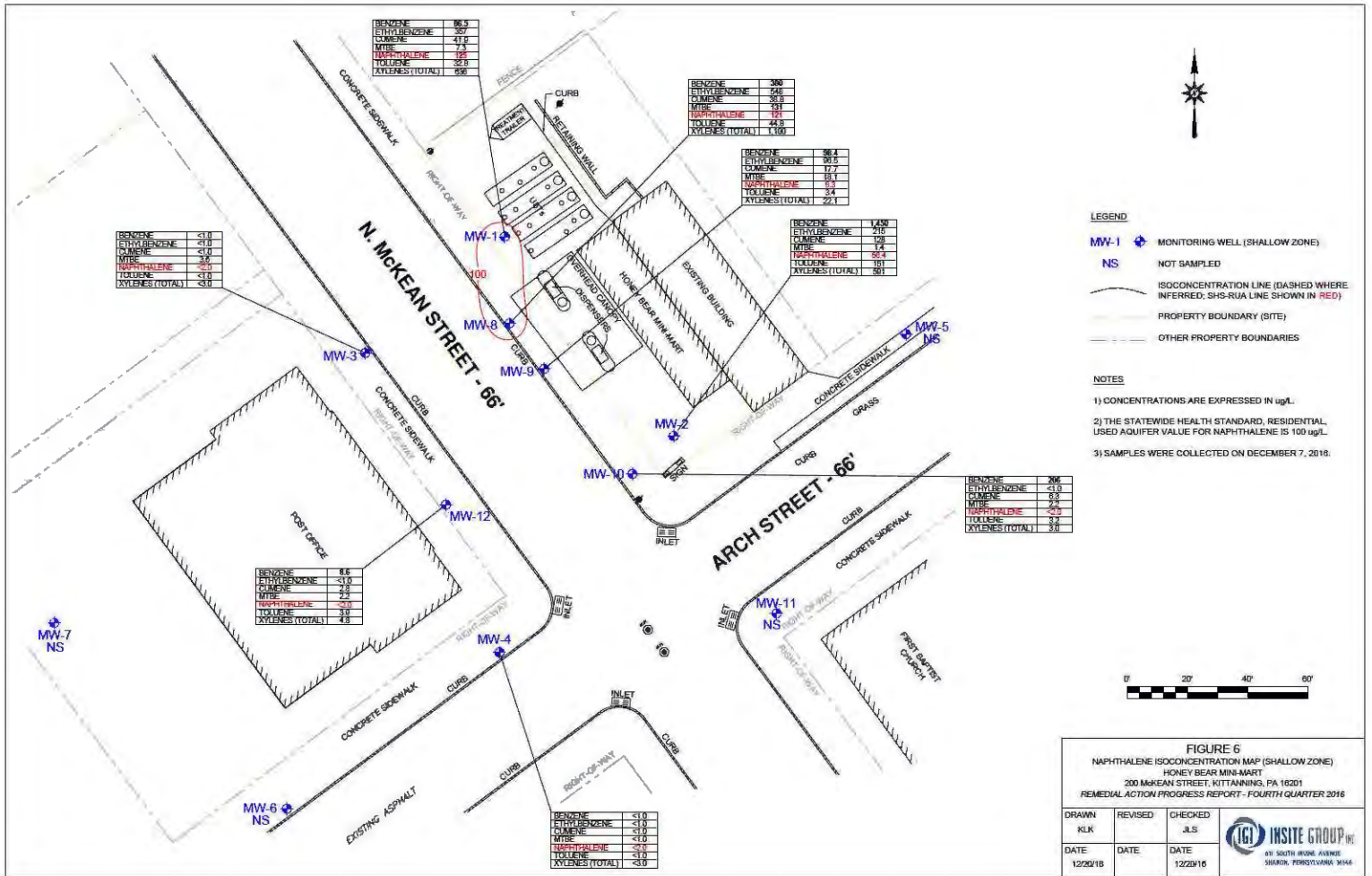
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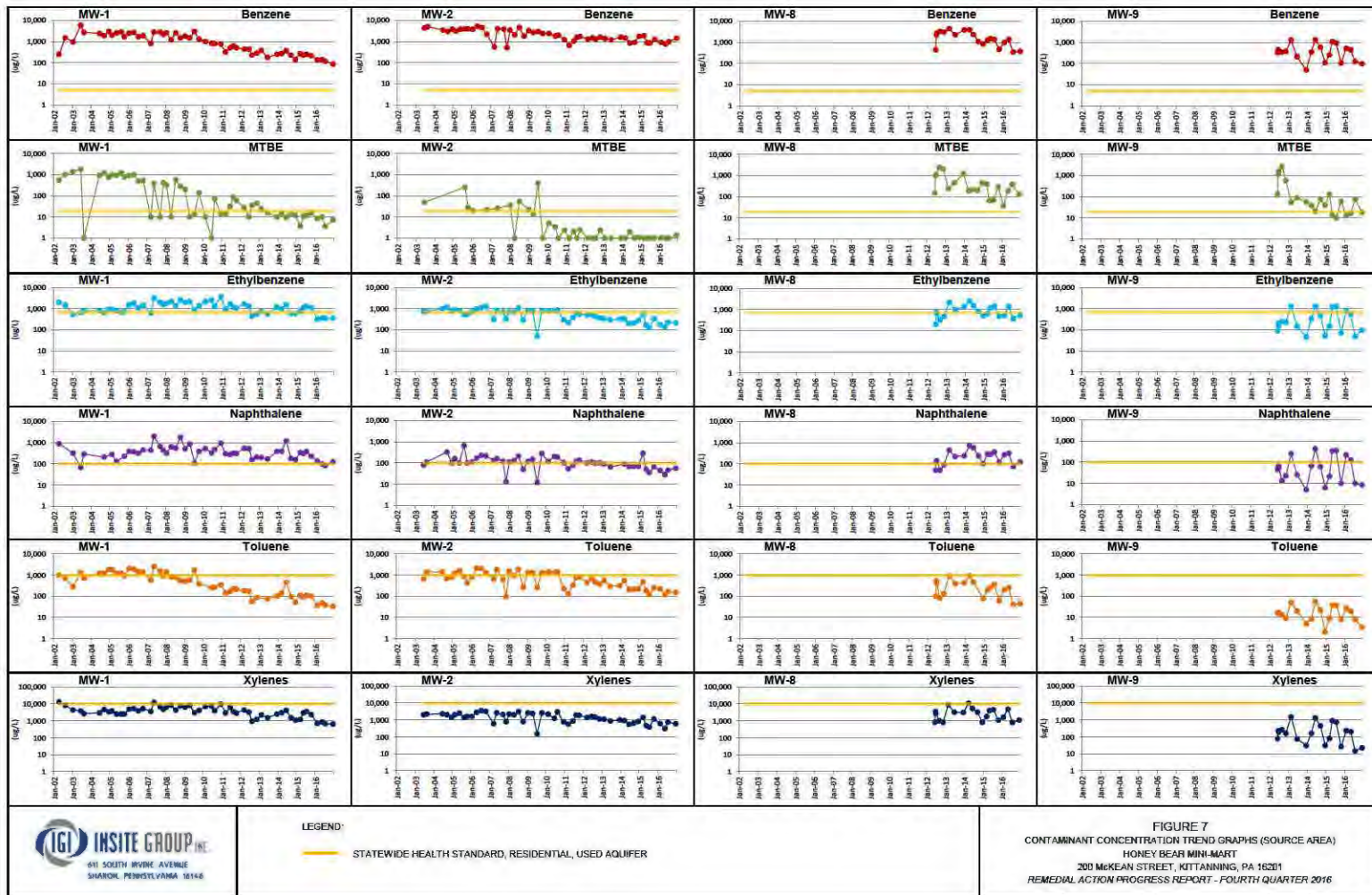


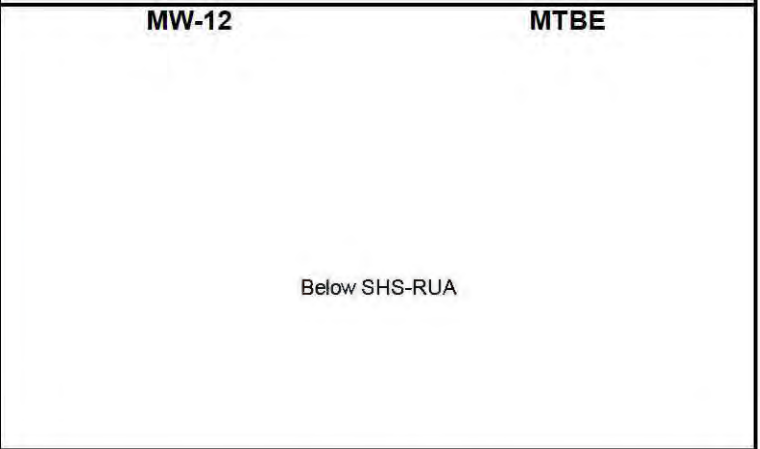
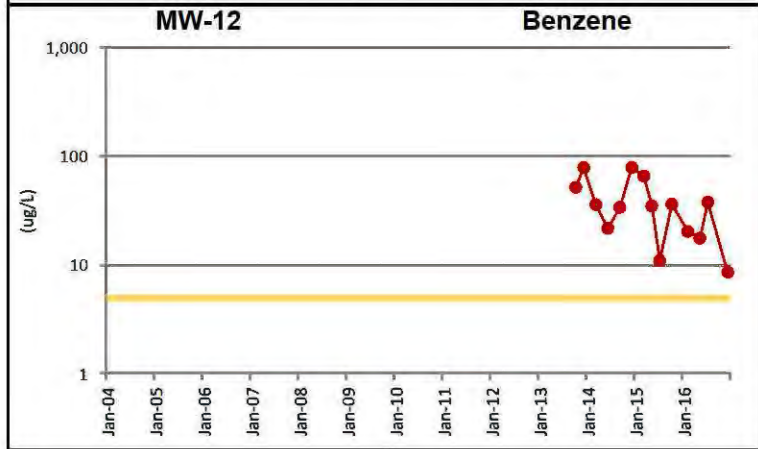
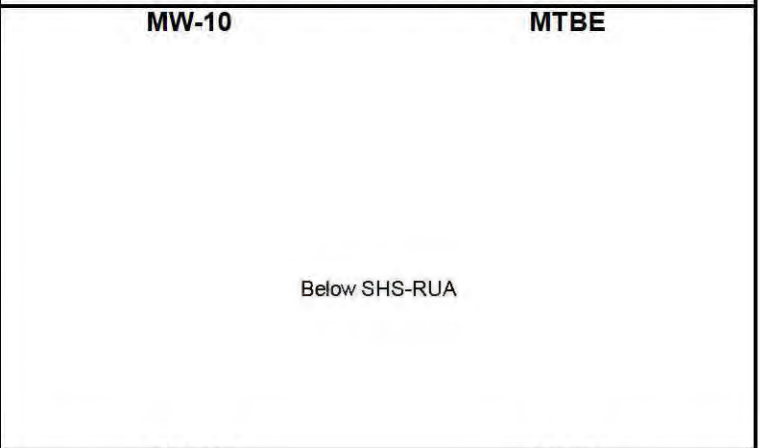
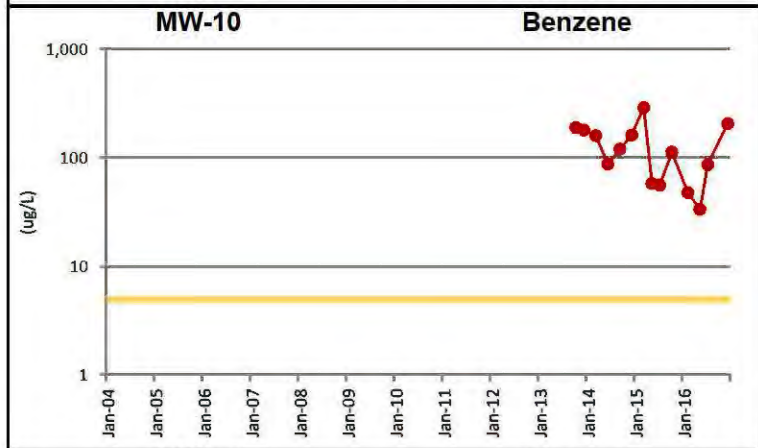
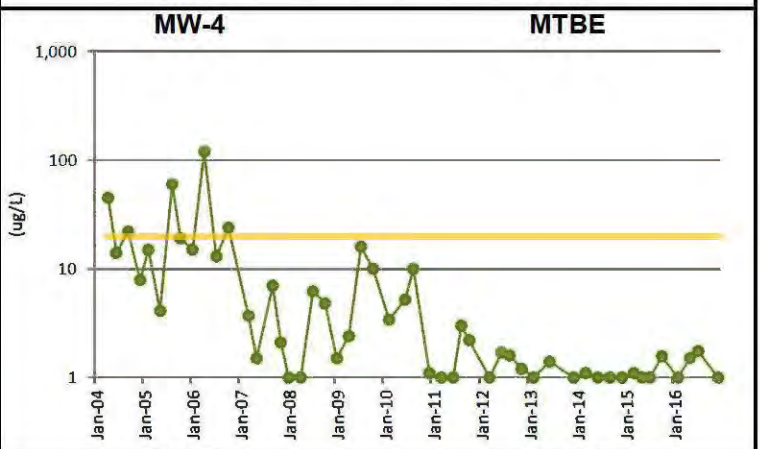
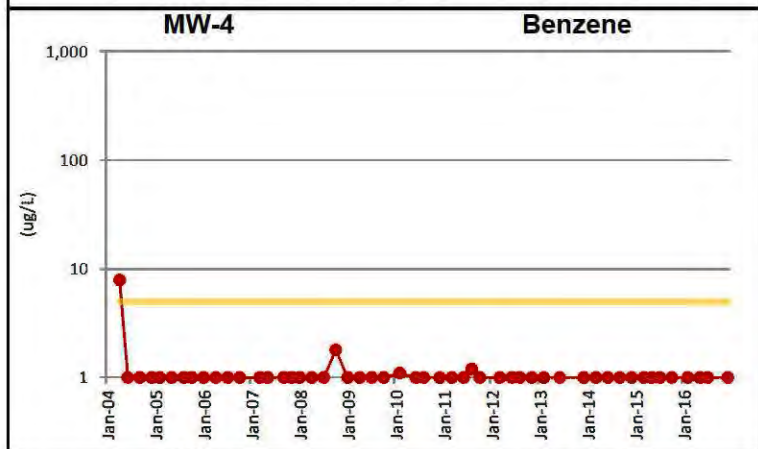
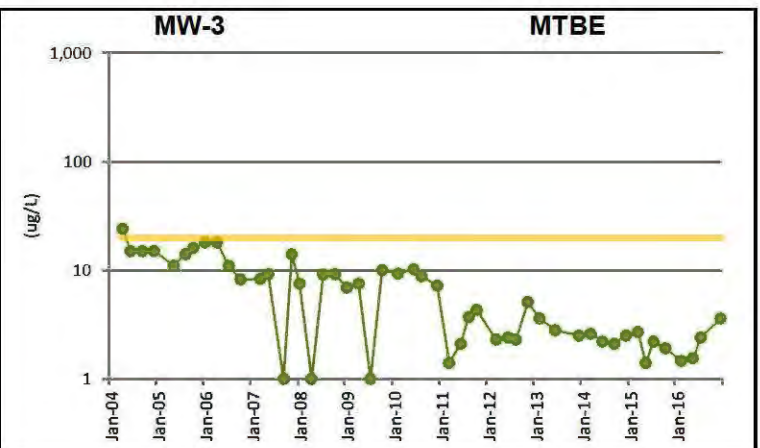
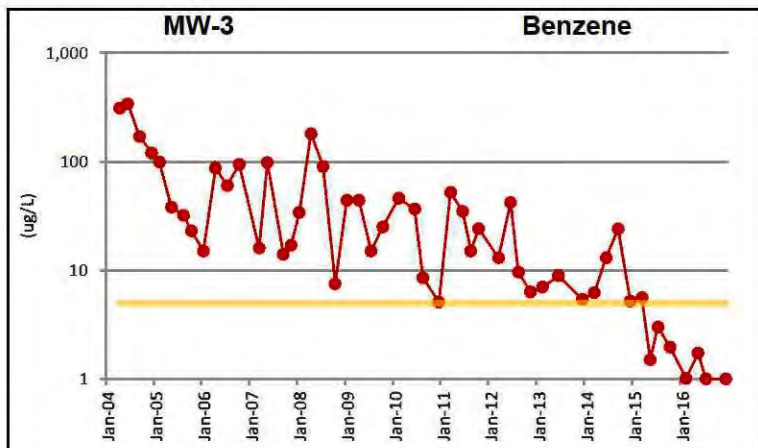












LEGEND:

STATEWIDE HEALTH
STANDARD, RESIDENTIAL,
USED AQUIFER

TABLES

Table 1.0: Monitoring Well Gauging Data

Well ID	Total Depth (feet)	Screen Length (feet)	TOC Elevation (feet)	Date	Depth To Water (feet)	Groundwater Elevation (feet)
MW-1	21.80	15	100.42	12/07/16	16.19	84.23
MW-2	24.38	15	101.06	12/07/16	16.94	84.12
MW-3	21.80	10	99.48	12/07/16	15.28	84.20
MW-4	21.46	12	99.86	12/07/16	15.93	83.93
MW-5	25.40	15	104.53	12/07/16	20.11	84.42
MW-6	19.53	10	99.91	12/07/16	16.05	83.86
MW-7	23.82	10	102.47	12/07/16	18.45	84.02
MW-8	20.63	10	100.23	12/07/16	15.99	84.20
MW-9	20.47	10	100.32	12/07/16	16.10	84.19
MW-10	22.16	15	100.24	12/07/16	16.19	84.05
MW-11	22.10	15	100.42	12/07/16	16.38	84.04
MW-12	21.10	15	99.01	12/07/16	15.58	83.43

Table 2.0: Current Groundwater Analytical Results

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-1	12/07/16	16.19	84.23	86.5	357	41.9	7.3	125	32.8	636
MW-2	12/07/16	16.94	84.12	1,450	215	128	1.4	56.4	151	591
MW-3	12/07/16	15.28	84.20	<1.0	<1.0	<1.0	3.6	<2.0	<1.0	<3.0
MW-4	12/07/16	15.93	83.93	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-8	12/07/16	15.99	84.20	380	548	38.8	131	121	44.8	1,100
DUP	12/07/16	--	--	375	494	28.8	134	104	36.0	873
MW-9	12/07/16	16.10	84.19	98.4	96.5	17.7	18.1	8.3	3.4	22.1
MW-10	12/07/16	16.19	84.05	206	<1.0	6.3	2.2	<2.0	3.2	3.0
MW-12	12/07/16	15.58	83.43	8.6	<1.0	2.8	2.2	<2.0	3.9	4.8

Notes: 1) Concentrations exceeding their respective SHS-RUA values are shown in **bold**.
2) Groundwater samples were analyzed by EPA method 5030B/8260B.
3) NS = not sampled. Sampling was discontinued for monitoring wells MW-5, MW-6, MW-7, MW-8D, MW-10D, MW-11 and MW-12D following eight or more quarters of results below the SHS-RUA.

Table 3.0: Groundwater Chemistry

Well ID	Date	Dissolved Oxygen	ORP	pH
		ppm	mV	S.U.
MW-1	12/07/16	3.5	8	7.0
MW-2	12/07/16	1.0	13	6.9
MW-3	12/07/16	2.0	68	5.9
MW-4	12/07/16	2.5	93	6.0
MW-8	12/07/16	1.0	136	6.7
MW-9	12/07/16	1.5	38	6.9
MW-10	12/07/16	<1.0	68	5.7
MW-12	12/07/16	1.5	120	6.7

Table 4.0: Historical Groundwater Analytical Results

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naph-thalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-1	04/19/02	7.58	--	250	2,000	<100	560	890	990	13,000
MW-1	08/09/02	11.00	--	1,500	1,500	<100	1,000	<500	700	8,100
MW-1	01/16/03	9.45	--	950	540	46	1,400	320	280	4,300
MW-1	MW-1 over-drilled									
MW-1	06/18/03	15.49	84.93	5,900	640	<50	1,800	66	1,300	3,800
MW-1	08/29/03	15.24	85.18	2,700	810	51	<1.0	290	710	2,600
MW-1	06/10/04	13.77	86.65	2,400	810	<100	930	<500	1,200	2,900
MW-1	09/27/04	12.02	88.40	1,900	650	<100	1,200	210	1,200	4,600
MW-1	12/13/04	14.72	85.70	3,000	940	<250	760	<100	1,800	3,400
MW-1	02/25/05	13.33	87.09	2,000	940	<250	1,000	280	1,800	3,800
MW-1	05/18/05	15.31	85.11	2,600	810	<100	940	130	1,200	2,500
MW-1	08/11/05	17.62	82.80	2,800	680	<200	1,200	<330	1,200	2,500
MW-1	10/19/05	17.89	82.53	1,700	710	<50	780	230	920	2,500
MW-1	01/09/06	15.42	85.00	2,500	1,500	<500	910	390	2,000	4,800
MW-1	04/11/06	16.19	84.23	2,700	1,800	<100	1,000	370	1,900	5,200
MW-1	07/19/06	16.38	84.04	1,700	1,100	51	490	320	1,400	3,900
MW-1	10/16/06	15.48	84.94	1,900	1,500	77	530	450	1,400	5,200
MW-1	03/20/07	13.27	87.15	820	610	<100	<32	440	570	3,600
MW-1	05/22/07	14.56	85.86	2,800	3,200	<500	380	2,000	2,500	12,000
MW-1	09/24/07	17.67	82.75	2,800	2,000	<250	<48	660	1,500	6,600
MW-1	11/28/07	17.10	83.32	2,200	1,600	70	420	440	880	4,700
MW-1	01/30/08	14.83	85.59	2,600	1,800	<500	330	320	1,400	6,400
MW-1	04/15/08	12.40	88.02	1,200	2,200	<250	<48	640	790	8,400
MW-1	07/07/08	16.37	84.05	2,600	1,400	<500	570	550	770	4,300
MW-1	10/14/08	17.93	82.49	1,500	2,600	<500	280	1,800	530	7,700
MW-1	01/21/09	15.51	84.91	1,800	2,000	98	200	510	510	6,400
MW-1	04/14/09	14.21	86.21	1,500	2,200	160	<9.6	860	560	8,200
MW-1	07/07/09	16.13	84.29	3,000	880	150	14	110	1,700	3,000
MW-1	10/26/09	16.91	83.51	1,300	1,400	64	140	390	370	4,100
MW-1	02/23/10	15.87	84.55	1,000	2,200	<200	<39	520	<1,000	6,900
MW-1	06/22/10	15.02	85.40	829	2,540	81.5	<1.0	331	247	7,360
MW-1	08/31/10	16.98	83.44	820	1,300	95	73	480	260	3,900
MW-1	12/21/10	14.73	85.69	763	3,600	199	14.6	940	344	9,690
MW-1	03/24/11	10.79	89.63	320	940	58	14	300	140	2,900
MW-1	06/13/11	13.20	87.22	506	1,670	70.0	31.8	279	167	6,080
MW-1	08/15/11	16.81	83.61	630	1,200	63	88	320	220	3,500
MW-1	10/07/11	16.53	83.89	514	1,050	62.4	60.4	310	208	2,820
MW-1	03/26/12	14.45	85.97	440	1,700	140	28	540	180	4,300
MW-1	06/07/12	16.17	84.25	440	1,300	120	<10	520	170	3,200
DUP	06/07/12	--	--	480	1,000	58	46	20	160	2,600

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-1	08/29/12	17.29	83.13	230	440	38	36	160	55	930
MW-1	11/14/12	16.41	84.01	284	564	37.5	45.1	206	84.3	1,210
MW-1	02/25/13	14.86	85.56	380	730	44	24	200	<125	2,200
MW-1	06/21/13	15.59	84.83	180	570	45	16	170	74	1,500
MW-1	12/16/13	16.06	84.36	250	1,200	90	<20	390	100	2,500
MW-1	03/27/14	14.80	85.62	270	1,000	70	15	390	140	3,000
MW-1	06/10/14	14.25	86.17	373	1,550	214	9.5	1,210	455	4,130
MW-1	09/18/14	15.72	84.70	230	590	36	14	180	95	1,500
MW-1	12/18/14	16.05	84.37	143	586	39.0	11.9	159	50.1	1,090
MW-1	03/13/15	16.42	84.00	270	730	51	<10	340	110	1,200
MW-1	05/08/15	14.08	86.34	230	1100	73	11	310	90	2,900
MW-1	07/24/15	14.29	86.13	250	1,300	100	12	380	110	3,500
MW-1	10/27/15	16.76	83.66	216	1,120	58.1	16.1	232	99.0	2,300
MW-1	02/02/16	14.95	85.47	135	316	22.5	<10.0	135	<50.0	693
MW-1	05/03/16	15.06	85.36	141	363	27.3	10.2	98.4	<50.0	847
MW-1	07/26/16	17.08	83.34	117	350	29.0	<10.0	82.8	<50.0	665
MW-1	12/07/16	16.19	84.23	86.5	357	41.9	7.3	125	32.8	636

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naph-thalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-2	MW-2 over-drilled									
MW-2	06/18/03	16.02	85.04	4,400	730	120	49	80	650	2,000
MW-2	08/29/03	15.95	85.11	5,100	730	130	<1.0	110	1,400	2,200
MW-2	06/10/04	14.43	86.63	3,500	1,000	<200	<200	<200	1,400	2,300
MW-2	09/27/04	12.69	88.37	3,000	1,200	220	<20	330	680	2,000
MW-2	12/13/04	15.44	85.62	3,900	750	120	<31	<100	780	1,400
MW-2	02/25/05	14.04	87.02	3,100	890	160	<33	160	1,200	2,000
MW-2	05/18/05	15.98	85.08	3,800	820	<200	<66	<100	1,600	2,500
MW-2	08/11/05	18.31	82.75	4,000	520	<100	260	670	870	1,400
MW-2	10/19/05	18.60	82.46	4,000	530	130	28	100	420	1,600
MW-2	01/09/06	16.12	84.94	3,800	720	150	20	110	800	1,600
MW-2	04/11/06	16.88	84.18	5,300	960	<250	<79	170	2,100	2,800
MW-2	07/19/06	16.91	84.15	4,600	1,100	180	<32	230	2,000	3,500
MW-2	10/16/06	16.18	84.88	2,200	1,300	260	23	220	1,300	3,200
MW-2	03/20/07	14.00	87.06	560	310	<200	<63	130	<640	<600
MW-2	05/22/07	15.63	85.43	4,000	840	140	26	160	1,800	2,600
MW-2	09/24/07	18.37	82.69	3,900	710	150	<20	120	630	2,100
MW-2	11/28/07	17.82	83.24	520	330	76	<20	13	93	780
MW-2	01/30/08	15.50	85.56	3,500	710	120	36	110	1,500	2,200
MW-2	04/15/08	13.03	88.03	2,100	700	190	<1.0	130	910	2,000
MW-2	07/07/08	17.03	84.03	4,700	1,100	<250	54	210	1,900	3,100
MW-2	10/14/08	18.50	82.56	1,800	290	79	<10	<50	260	790
MW-2	01/21/09	16.17	84.89	3,300	830	140	23	120	1,300	2,600
MW-2	04/14/09	14.89	86.17	2,700	800	160	13	150	1,300	2,400
MW-2	07/07/09	16.78	84.28	3,000	<50	170	390	12	<250	<150
MW-2	10/26/09	17.59	83.47	2,400	820	130	<9.6	280	1,300	2,600
MW-2	02/23/10	16.54	84.52	2,400	780	180	5.2	120	1,400	2,200
MW-2	06/22/10	16.46	84.60	1,830	801	161	3.4	204	1,330	1,230
MW-2	08/31/10	17.61	83.45	2,000	880	140	<20	190	1,400	3,000
MW-2	12/21/10	15.41	85.65	1,240	297	116	2.4	103	227	755
MW-2	03/24/11	11.41	89.65	660	220	77	<12	54	130	560
DUP	03/24/11	—	—	660	170	66	1.5	47	120	440
MW-2	06/13/11	13.82	87.24	1,060	386	99.2	2.1	78.5	332	858
DUP	06/13/11	—	—	1,080	380	94.7	2.1	71.5	335	914
MW-2	08/15/11	17.48	83.58	1,600	600	130	<13	120	750	1,900
DUP	08/15/11	—	—	1,700	600	120	2.1	140	780	2,100
MW-2	10/07/11	17.27	83.79	1,740	554	142	2.5	136	797	1,860
DUP	10/07/11	—	—	1,880	648	156	2.4	143	833	2,050

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naph-thalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-2	03/26/12	15.46	85.60	1,300	500	140	<5.0	100	440	1,400
DUP	03/26/12	—	—	1,400	460	120	<5.0	98	450	1,300
MW-2	06/07/12	16.83	84.23	1,500	520	120	<10	110	670	1,600
MW-2	08/29/12	17.96	83.10	1,300	440	100	<10	98	470	1,500
DUP	08/29/12	—	—	1,100	350	80	<10	63	380	1,200
MW-2	11/14/12	17.11	83.95	1,610	363	135	2.4	102	366	1,140
DUP	11/14/12	—	—	1,650	350	130	1.5	99.9	352	1,100
MW-2	02/25/13	15.55	85.51	1,400	350	86	<10	89	550	1,100
DUP	02/25/13		—	1,300	320	88	<10	66	490	960
MW-2	06/21/13	16.30	84.76	1,200	290	98	<10	65	290	860
DUP	06/21/13		—	1,200	260	89	<10	53	270	790
MW-2	12/16/13	16.77	84.29	1,600	330	130	<20	<100	310	1,000
MW-2	03/27/14	15.51	85.55	1,500	330	140	<20	89	540	920
MW-2	06/10/14	15.59	85.47	857	195	68.9	2.0	67.2	208	544
MW-2	09/18/14	16.42	84.64	920	210	67	<20	<100	210	640
MW-2	12/18/14	16.79	84.27	1,790	276	118	1.1	68.9	218	812
MW-2	03/13/15	17.11	83.95	1,900	530	130	<20	290	470	1,400
MW-2	05/08/15	14.75	86.31	870	170	58	<20	<100	180	460
MW-2	07/24/15	14.98	86.08	860	130	66	<5.0	35	120	380
MW-2	10/27/15	17.49	83.57	1,250	346	108	<5.00	66.0	248	1,130
MW-2	02/02/16	15.68	85.38	928	176	48.5	1.04	44.4	220	611
MW-2	05/03/16	15.74	85.32	764	138	57.0	<1.00	28.3	118	308
MW-2	07/26/16	17.77	83.29	991	229	69.5	<10.0	<50.0	165	735
MW-2	12/07/16	16.94	84.12	1,450	215	128	1.4	56.4	151	591

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-3	04/16/04	11.97	87.51	310	<1.0	14	24	<5.0	12	24
MW-3	06/10/04	12.92	86.56	340	<10	14	15	<50	<50	<30
MW-3	09/27/04	11.09	88.39	170	<1.0	6.3	15	<5.0	<5.0	8.2
MW-3	12/13/04	14.75	84.73	120	<5.0	<5.0	15	<25	<25	<15
MW-3	02/25/05	12.49	86.99	99	<5.0	<5.0	<5.0	<25	<25	<15
MW-3	05/18/05	14.43	85.05	38	<1.0	<10	11	<5.0	9.1	13
MW-3	08/11/05	16.71	82.77	32	<1.0	<1.0	14	<5.0	<5.0	<3.0
MW-3	10/19/05	16.98	82.50	23	<1.0	<1.0	16	<5.0	<5.0	<3.0
MW-3	01/09/06	14.49	84.99	15	<1.0	<1.0	18	<5.0	<5.0	<3.0
MW-3	04/11/06	15.28	84.20	87	<1.0	1.6	18	<5.0	<5.0	<3.0
MW-3	07/19/06	15.24	84.24	60	<1.0	2.7	11	<5.0	<5.0	<3.0
MW-3	10/16/06	14.51	84.97	94	<1.0	6.4	8.2	<5.0	<5.0	5.9
MW-3	03/20/07	12.33	87.15	16	<1.0	1.0	8.3	<5.0	<5.0	<3.0
MW-3	05/22/07	13.69	85.79	98	<1.0	4.8	9.2	6.9	<5.0	5.1
MW-3	09/24/07	16.74	82.74	14	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-3	11/28/07	16.08	83.40	17	<5.0	<5.0	14	<25	<5.0	<15
MW-3	01/30/08	13.94	85.54	34	<1.0	<1.0	7.5	<5.0	<5.0	<3.0
MW-3	04/15/08	11.54	87.94	180	<5.0	<5.0	<5.0	<25	<25	<15
MW-3	07/07/08	15.44	84.04	90	<1.0	4.1	9.1	<5.0	<5.0	<3.0
MW-3	10/14/08	16.89	82.59	7.5	<1.0	<1.0	9.2	<5.0	<5.0	<3.0
MW-3	01/21/09	14.65	84.83	44	<1.0	1.3	6.9	<5.0	<5.0	<3.0
MW-3	04/14/09	13.31	86.17	44	<1.0	1.9	7.5	<5.0	<5.0	<3.0
MW-3	07/07/09	15.32	84.16	15	15	1.9	<1.0	<5.0	<5.0	14
MW-3	10/26/09	16.07	83.41	25	<1.0	1.6	10	<5.0	<5.0	<3.0
MW-3	02/23/10	14.94	84.54	46	<1.0	4.2	9.3	<5.0	<5.0	<3.0
MW-3	06/22/10	15.01	84.47	36.6	<1.0	3.5	10.2	<2.0	2.5	<3.0
MW-3	08/31/10	16.13	83.35	8.5	<1.0	<1.0	8.8	<5.0	<5.0	<3.0
MW-3	12/21/10	13.81	85.67	5.1	1.8	<1.0	7.2	<2.0	<1.0	4.9
MW-3	03/24/11	9.91	89.57	52	<1.0	1.3	1.4	<5.0	<5.0	<3.0
MW-3	06/13/11	12.44	87.04	34.8	<1.0	1.8	2.1	2.7	1.1	<3.0
MW-3	08/15/11	15.89	83.59	15	<1.0	2.4	3.7	<5.0	<5.0	<3.0
MW-3	10/07/11	15.67	83.81	24.1	<1.0	2.4	4.3	<2.0	2.8	<3.0
MW-3	03/26/12	13.62	85.86	13	<1.0	1.9	2.3	<5.0	<5.0	<3.0
MW-3	06/07/12	15.26	84.22	42	<1.0	4.8	2.4	<5.0	<5.0	3.2
MW-3	08/29/12	16.37	83.11	9.6	<1.0	1.1	2.3	<5.0	<5.0	<3.0
MW-3	11/14/12	15.53	83.95	6.3	<1.0	<1.0	5.1	<2.0	1.0	<3.0
MW-3	02/25/13	14.02	85.46	7.0	<1.0	<1.0	3.6	<5.0	<5.0	<3.0
MW-3	06/21/13	14.71	84.77	8.9	<1.0	1.2	2.8	<5.0	<5.0	<3.0
MW-3	12/16/13	15.20	84.28	5.4	<1.0	<1.0	2.5	<5.0	<5.0	<3.0
MW-3	03/27/14	13.93	85.55	6.2	<1.0	<1.0	2.6	<5.0	<5.0	<3.0
MW-3	06/10/14	13.41	86.07	13.0	<1.0	2.4	2.2	<2.0	1.9	<3.0
MW-3	09/18/14	14.85	84.63	24	<1.0	4.1	2.1	<5.0	<5.0	3.2
MW-3	12/18/14	15.17	84.31	5.2	<1.0	<1.0	2.5	<2.0	2.0	<3.0
MW-3	03/13/15	15.54	83.94	5.6	<1.0	1.2	2.7	5.8	<5.0	<3.0
MW-3	05/08/15	13.18	86.30	1.5	<1.0	<1.0	1.4	<5.0	<5.0	<3.0
MW-3	07/24/15	13.45	86.03	3.0	<1.0	1.6	2.2	<5.0	<5.0	<3.0
MW-3	10/27/15	15.88	83.60	1.96	<1.00	1.15	1.91	<5.00	<5.00	<3.00
MW-3	02/02/16	14.06	85.42	1.01	<1.00	<1.00	1.46	<5.00	<5.00	<3.00
MW-3	05/03/16	14.20	85.28	1.73	<1.00	1.97	1.55	<5.00	<5.00	<3.00
MW-3	07/26/16	16.17	83.31	<1.00	<1.00	<1.00	2.40	<5.00	<5.00	<3.00
MW-3	12/07/16	15.28	84.20	<1.0	<1.0	<1.0	3.6	<2.0	<1.0	<3.0

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in bold.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-4	04/16/04	12.52	87.34	7.9	<1.0	<1.0	45	<5.0	<5.0	<3.0
MW-4	06/10/04	13.56	86.30	<1.0	<1.0	<1.0	14	<5.0	<5.0	3.0
MW-4	09/27/04	11.68	88.18	<1.0	<1.0	<1.0	22	<5.0	<5.0	<3.0
MW-4	12/13/04	14.46	85.40	<1.0	<1.0	<1.0	7.9	<5.0	<5.0	<3.0
MW-4	02/25/05	13.13	86.73	<1.0	<1.0	<1.0	15	<5.0	<5.0	<3.0
MW-4	05/18/05	15.08	84.78	<1.0	<1.0	<1.0	4.1	<5.0	<5.0	<3.0
MW-4	08/11/05	17.34	82.52	<1.0	<1.0	<1.0	60	<5.0	<5.0	<3.0
MW-4	10/19/05	17.63	82.23	<1.0	<1.0	<1.0	19	<5.0	<5.0	<3.0
MW-4	01/09/06	15.11	84.75	<1.0	<1.0	<1.0	15	<5.0	<5.0	<3.0
MW-4	04/11/06	15.93	83.93	<1.0	<1.0	<1.0	120	<5.0	<5.0	<3.0
MW-4	07/19/06	15.89	83.97	<1.0	<1.0	<1.0	13	<5.0	<5.0	<3.0
MW-4	10/16/06	15.17	84.69	<1.0	<1.0	<1.0	24	<5.0	<5.0	<3.0
MW-4	03/20/07	12.92	86.94	<1.0	<1.0	<1.0	3.7	<5.0	<5.0	<3.0
MW-4	05/22/07	14.38	85.48	<1.0	<1.0	<1.0	1.5	<5.0	<5.0	<3.0
MW-4	09/24/07	17.39	82.47	<1.0	<1.0	<1.0	7.0	<5.0	<5.0	<3.0
MW-4	11/28/07	16.70	83.16	<1.0	<1.0	<1.0	2.1	<5.0	<1.0	<3.0
MW-4	01/30/08	14.61	85.25	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	04/15/08	12.19	87.67	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	07/07/08	16.09	83.77	<1.0	<1.0	<1.0	6.2	<5.0	<5.0	<3.0
MW-4	10/14/08	17.54	82.32	1.8	<1.0	<1.0	4.8	<5.0	<5.0	<3.0
MW-4	01/21/09	15.32	84.54	<1.0	<1.0	<1.0	1.5	<5.0	<5.0	<3.0
MW-4	04/14/09	14.03	85.83	<1.0	<1.0	<1.0	2.4	<5.0	<5.0	<3.0
MW-4	07/07/09	15.99	83.87	<1.0	<1.0	<1.0	16	<5.0	<5.0	<3.0
MW-4	10/26/09	16.73	83.13	<1.0	<1.0	<1.0	10	<5.0	<5.0	<3.0
MW-4	02/23/10	15.69	84.17	1.1	<1.0	<1.0	3.4	<5.0	<5.0	<3.0
MW-4	06/22/10	15.69	84.17	<1.0	1.3	<1.0	5.2	2.2	<1.0	4.5
MW-4	08/31/10	16.81	83.05	<1.0	<1.0	<1.0	10	<5.0	<5.0	<3.0
MW-4	12/21/10	14.48	85.38	<1.0	1.2	<1.0	1.1	<2.0	<1.0	3.5
MW-4	03/24/11	10.47	89.39	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	06/13/11	13.10	86.76	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-4	08/15/11	16.56	83.30	1.2	<1.0	<1.0	3.0	<5.0	<5.0	<3.0
MW-4	10/07/11	16.33	83.53	<1.0	<1.0	<1.0	2.2	7.7	<1.0	<3.0
MW-4	03/26/12	14.29	85.57	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	06/07/12	15.94	83.92	<1.0	<1.0	<1.0	1.7	<5.0	<5.0	<3.0
MW-4	08/29/12	16.91	82.95	<1.0	<1.0	<1.0	1.6	<5.0	<5.0	<3.0
MW-4	11/14/12	16.16	83.70	<1.0	<1.0	<1.0	1.2	<2.0	<1.0	<3.0
MW-4	02/25/13	14.69	85.17	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	06/21/13	15.35	84.51	<1.0	<1.0	<1.0	1.4	<5.0	<5.0	<3.0
MW-4	12/16/13	15.82	84.04	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	03/27/14	14.57	85.29	<1.0	<1.0	<1.0	1.1	<5.0	<5.0	<3.0
MW-4	06/10/14	14.10	85.76	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-4	09/18/14	15.55	84.31	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	12/18/14	15.81	84.05	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-4	03/13/15	16.13	83.73	<1.0	<1.0	<1.0	1.1	<5.0	<5.0	<3.0
MW-4	05/08/15	13.93	85.93	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	07/24/15	14.12	85.74	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-4	10/27/15	16.53	83.33	<1.00	<1.00	<1.00	1.57	<5.00	<5.00	<3.00
MW-4	02/02/16	14.75	85.11	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<3.00
MW-4	05/03/16	14.85	85.01	<1.00	<1.00	<1.00	1.51	<5.00	<5.00	<3.00
MW-4	07/26/16	16.80	83.06	<1.00	<1.00	<1.00	1.75	<5.00	<5.00	<3.00
MW-4	12/07/16	15.93	83.93	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naph-thalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-5	04/16/04	16.59	87.94	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	06/10/04	17.39	87.14	1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	09/27/04	15.67	88.86	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	12/13/04	18.61	85.92	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	02/25/05	17.10	87.43	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	05/18/05	19.02	85.51	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	08/11/05	21.48	83.05	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	10/19/05	21.75	82.78	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	01/09/06	19.27	85.26	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	04/11/06	19.99	84.54	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	07/19/06	19.91	84.62	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	10/16/06	19.24	85.29	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	03/20/07	17.18	87.35	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	05/22/07	18.20	86.33	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	09/24/07	21.48	83.05	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	11/28/07	21.07	83.46	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<3.0
MW-5	01/30/08	18.44	86.09	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	04/15/08	16.05	88.48	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	07/07/08	20.14	84.39	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	10/14/08	21.62	82.91	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	01/21/09	19.15	85.38	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	04/14/09	17.85	86.68	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	07/07/09	19.66	84.87	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	10/26/09	20.60	83.93	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	02/23/10	19.53	85.00	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	06/22/10	19.36	85.17	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-5	08/31/10	20.55	83.98	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-5	Sampling was discontinued for MW-5 following eight or more quarters of results below the SHS-RUA.									

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naph-thalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-6	05/18/04	13.79	86.12	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	06/10/04	13.74	86.17	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	09/27/04	11.82	88.09	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	12/13/04	14.56	85.35	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	02/25/05	13.28	86.63	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	05/18/05	15.27	84.64	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	08/11/05	17.51	82.40	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	10/19/05	17.80	82.11	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	01/09/06	15.22	84.69	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	04/11/06	16.09	83.82	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	07/19/06	16.04	83.87	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	10/16/06	15.31	84.60	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	03/20/07	12.98	86.93	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	05/22/07	14.56	85.35	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	09/24/07	17.55	82.36	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	11/28/07	16.80	83.11	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<3.0
MW-6	01/30/08	14.79	85.12	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	04/15/08	12.18	87.73	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	07/07/08	16.24	83.67	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	10/14/08	17.69	82.22	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	01/21/09	15.47	84.44	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	04/14/09	14.19	85.72	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	07/07/09	16.16	83.75	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	10/26/09	16.89	83.02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	02/23/10	15.86	84.05	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	06/22/10	15.89	84.02	<1.0	1.2	<1.0	<1.0	<2.0	<1.0	3.9
MW-6	08/31/10	16.98	82.93	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-6	Sampling was discontinued for MW-6 following eight or more quarters of results below the SHS-RUA.									

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naph-thalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-7	05/18/04	16.12	86.35	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	06/10/04	16.10	86.37	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	09/27/04	14.23	88.24	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	12/13/04	16.93	85.54	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	02/25/05	15.68	86.79	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	05/18/05	17.62	84.85	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	08/11/05	19.90	82.57	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	10/19/05	20.16	82.31	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	01/09/06	17.63	84.84	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	04/11/06	18.43	84.04	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	07/19/06	18.41	84.06	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	10/16/06	17.68	84.79	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	03/20/07	15.45	87.02	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	05/22/07	16.91	85.56	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	09/24/07	19.92	82.55	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	11/28/07	19.16	83.31	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<3.0
MW-7	01/30/08	17.15	85.32	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	04/15/08	14.71	87.76	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	07/07/08	18.59	83.88	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	10/14/08	20.05	82.42	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	01/21/09	17.83	84.64	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	04/14/09	16.49	85.98	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	07/07/09	18.51	83.96	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	10/26/09	19.23	83.24	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	02/23/10	18.21	84.26	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	06/22/10	18.21	84.26	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	3.0
MW-7	08/31/10	19.32	83.15	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-7	Sampling was discontinued for MW-6 following eight or more quarters of results below the SHS-RUA.									

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-8	06/07/12	15.60	84.59	450	200	15	150	<50	100	820
MW-8	06/21/12	16.27	83.92	2,300	740	31	1,000	130	520	3,500
MW-8	06/28/12	16.42	83.77	2,700	630	27	1,100	140	420	2,700
MW-8	08/29/12	17.07	83.12	3,300	330	18	2,500	<50	80	1,000
MW-8	11/14/12	16.21	83.98	3,070	473	24.4	2,050	89.5	131	801
MW-8	02/25/13	14.67	85.52	4,500	2,200	94	240	440	900	8,900
MW-8	06/21/13	15.41	84.78	2,300	970	<50	450	220	390	3,200
MW-8	12/16/13	15.86	84.33	3,900	1,400	59	1,200	240	430	3,100
MW-8	03/27/14	14.51	85.68	4,000	2,500	97	190	730	920	11,000
DUP	03/27/14	—	—	3,100	1,900	81	180	680	800	8,600
MW-8	06/10/14	14.02	86.17	2,370	1,570	83.5	211	573	479	5,230
DUP	06/10/14	—	—	2,320	1,680	71.2	215	1,780	480	5,880
MW-8	09/18/14	15.52	84.67	1,100	820	<100	200	240	<500	3,200
DUP	09/18/14	—	—	1,200	980	46	240	300	330	3,600
MW-8	12/18/14	15.85	84.34	852	505	245	454	<100	77.2	799
DUP	12/18/14	—	—	871	562	28.4	531	124	87.0	831
MW-8	03/13/15	16.24	83.95	1,300	640	<100	400	290	200	1,800
DUP	03/13/15	—	—	1,200	620	28	380	120	180	1,600
MW-8	05/08/15	13.82	86.37	1,500	1,200	<100	64	280	<500	4,000
DUP	05/08/15	—	—	1,600	1,300	55	60	290	250	4,200
MW-8	07/24/15	14.12	86.07	1,400	1,400	<100	70	360	<500	4,500
DUP	07/24/15	—	—	1,200	1,200	54	62	320	<250	3,800
MW-8	10/27/15	16.55	83.64	474	486	27.9	289	121	60.1	1,070
DUP	10/27/15	—	—	513	493	<50.0	231	78.8	<250	1,100
MW-8	02/02/16	14.77	85.42	986	520	51.2	37.3	267	201	1,620
DUP	02/02/16	—	—	1,020	1,170	55.7	44.0	296	184	3,360
MW-8	05/03/16	14.90	85.29	1,380	1,430	59.4	192	313	247	4,870
DUP	05/03/16	—	—	1,280	1,630	58.4	174	366	261	5,640
MW-8	07/26/16	16.84	83.35	353	376	<25.0	386	73.8	<125	798
MW-8	12/07/16	15.99	84.20	380	548	38.8	131	121	44.8	1,100
DUP	12/07/16	—	—	375	494	28.8	134	104	36.0	873

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-8D	10/25/13	16.52	83.51	33	21	3.6	2.9	5.1	<5.0	160
DUP	10/25/13	—	—	27	17	3.2	2.3	<5.0	<5.0	140
MW-8D	12/16/13	15.61	84.42	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-8D	03/27/14	14.34	85.69	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-8D	06/10/14	13.81	86.22	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-8D	09/18/14	15.28	84.75	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-8D	12/18/14	15.57	84.46	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-8D	03/13/15	15.92	84.11	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-8D	05/08/15	13.65	86.38	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-8D	07/24/15	13.87	86.16	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-8D	10/27/15	16.30	83.73	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<3.00
MW-8D	Sampling was discontinued for MW-8D following eight or more quarters of results below the SHS-RUA.									
MW-9	06/07/12	16.04	84.25	330	89	20	130	<50	<50	78
MW-9	06/21/12	16.35	83.94	460	200	31	1,200	65	17	230
MW-9	06/28/12	16.53	83.76	400	160	25	1,600	52	17	190
MW-9	08/29/12	17.15	83.14	350	250	23	2,700	<50	<50	260
MW-9	11/14/12	16.30	83.99	378	227	32.5	572	22.7	8.9	158
MW-9	02/25/13	14.78	85.51	1,300	1,300	92	55	250	<125	1,500
MW-9	06/21/13	15.48	84.81	210	150	<25	89	<25	<125	<75
MW-9	12/16/13	15.96	84.33	50	46	10	56	<5.0	<5.0	30
MW-9	03/27/14	14.71	85.58	350	340	26	38	66	8.3	160
MW-9	06/10/14	14.15	86.14	1,330	1,310	85.1	20.3	425	55.1	1,320
MW-9	09/18/14	15.63	84.66	590	480	44	78	61	<50	440
MW-9	12/18/14	15.96	84.33	110	53.2	18.5	39.4	6.2	2.0	30.7
MW-9	03/13/15	16.26	84.03	260	150	22	130	<50	<50	80
MW-9	05/08/15	13.98	86.31	1,100	1,200	72	14	340	<50	900
MW-9	07/24/15	14.21	86.08	930	1,300	87	10	350	<50	740
MW-9	10/27/15	16.66	83.63	107	71.5	16.1	60.6	<50.0	<50.0	<30.0
MW-9	02/02/16	14.85	85.44	526	791	53.8	13.2	221	26.1	231
MW-9	05/03/16	14.98	85.31	447	542	37.3	16.4	125	<50.0	200
MW-9	07/26/16	16.96	83.33	126	48.5	11.3	75.6	<50.0	<50.0	<30.0
DUP	07/26/16	—	—	115	43.8	<25.0	72.6	<25.0	<125	<75.0
MW-9	12/07/16	16.10	84.19	98.4	96.5	17.7	18.1	8.3	3.4	22.1

Notes: 1) NS = not sampled
2) DUP = blind duplicate
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Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-10	10/25/13	16.91	83.33	190	<1.0	4.0	3.6	<5.0	<5.0	3.5
MW-10	12/16/13	15.88	84.36	180	<1.0	2.4	2.8	<5.0	<5.0	<3.0
MW-10	03/27/14	14.68	85.56	160	<1.0	3.0	3.4	<5.0	<5.0	<3.0
MW-10	06/10/14	14.05	86.19	87.5	<1.0	6.6	4.4	<2.0	1.4	<3.0
MW-10	09/18/14	15.60	84.64	120	<1.0	9.6	2.6	<5.0	<5.0	<3.0
MW-10	12/18/14	15.96	84.28	162	<1.0	9.8	3.8	<2.0	3.0	3.1
MW-10	03/13/15	16.29	83.95	290	<1.0	11	5.4	<5.0	5.6	4.5
MW-10	05/08/15	13.86	86.38	58	<1.0	3.4	3.1	<5.0	<5.0	<3.0
MW-10	07/24/15	14.17	86.07	56	<1.0	6.1	2.1	<5.0	<5.0	<3.0
MW-10	10/27/15	16.65	83.59	113	<1.00	7.03	2.31	<5.00	<5.00	<3.00
MW-10	02/02/16	14.77	85.47	47.9	<1.00	2.60	2.65	<5.00	<5.00	<3.00
MW-10	05/03/16	14.90	85.34	33.5	<1.00	1.77	1.96	5.47	<5.00	<3.00
MW-10	07/26/16	16.91	83.33	86.4	<1.00	3.06	2.29	<5.00	<5.00	<3.00
MW-10	12/07/16	16.19	84.05	206	<1.0	6.3	2.2	<2.0	3.2	3.0
MW-10D	10/25/13	16.53	83.32	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-10D	12/16/13	15.48	84.37	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-10D	03/27/14	14.31	85.54	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-10D	06/10/14	13.79	86.06	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-10D	09/18/14	15.25	84.60	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-10D	12/18/14	15.50	84.35	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-10D	03/13/15	15.85	84.00	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-10D	05/08/15	13.63	86.22	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-10D	07/24/15	13.85	86.00	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-10D	10/27/15	16.25	83.60	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<3.00
MW-10D	Sampling was discontinued for MW-10D following eight or more quarters of results below the SHS-RUA.									
MW-11	10/25/13	17.16	83.26	<5.0	21	190	<5.0	<25	<25	<15
MW-11	12/16/13	16.17	84.25	<3.3	29	160	<10	<50	<50	<30
MW-11	03/27/14	14.91	85.51	<1.0	3.6	57	<1.0	5.4	<5.0	<3.0
MW-11	06/10/14	14.31	86.11	<1.0	5.5	49.6	<1.0	3.0	<1.0	4.6
MW-11	09/18/14	15.76	84.66	<1.0	5.5	62	<1.0	<5.0	<5.0	5.0
MW-11	12/18/14	16.22	84.20	<1.0	16.0	126	<1.0	10.8	<1.0	11.9
MW-11	03/13/15	16.58	83.84	<1.0	9.3	57	<1.0	7.4	<5.0	6.8
MW-11	05/08/15	14.14	86.28	<1.0	3.6	41	<1.0	<5.0	<5.0	3.1
MW-11	07/24/15	14.39	86.03	<1.0	1.7	35	<1.0	<5.0	<5.0	<3.0
MW-11	10/27/15	16.91	83.51	<1.00	5.10	106	<1.00	6.72	<5.00	4.29
MW-11	Sampling was discontinued for MW-11 following eight or more quarters of results below the SHS-RUA.									

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
MW-12	10/25/13	16.48	82.53	52	<1.0	6.2	5.5	<5.0	5.5	9.5
MW-12	12/16/13	15.48	83.53	79	<1.0	6.6	5.3	<5.0	6.3	9.4
DUP	12/16/13	--	--	77	<1.0	6.5	5.7	<5.0	5.9	8.6
MW-12	03/27/14	14.22	84.79	36	<1.0	3.8	4.3	<5.0	<5.0	<3.0
MW-12	06/10/14	13.72	85.29	21.8	<1.0	4.8	3.2	<2.0	1.2	<3.0
MW-12	09/18/14	15.15	83.86	34	<1.0	4.7	4.6	<5.0	<5.0	<3.0
MW-12	12/18/14	15.45	83.56	79.3	<1.0	8.7	4.6	<2.0	4.7	4.7
MW-12	03/13/15	15.83	83.18	66	<1.0	4.2	2.6	<5.0	5.6	5.3
MW-12	05/08/15	13.54	85.47	35	<1.0	3.5	2.1	<5.0	<5.0	3.2
MW-12	07/24/15	13.75	85.26	11	<1.0	2.2	1.3	<5.0	<5.0	<3.0
MW-12	10/27/15	16.18	82.83	36.3	<1.00	2.79	2.93	<5.00	<5.00	3.38
MW-12	02/02/16	14.35	84.66	20.4	<1.00	2.89	2.23	3.77	3.59	4.78
MW-12	05/03/16	14.49	84.52	17.7	<1.00	3.55	2.49	<5.00	<5.00	4.60
MW-12	07/26/16	16.46	82.55	37.9	<1.00	2.96	2.69	<5.00	<5.00	3.33
MW-12	12/07/16	15.58	83.43	8.6	<1.0	2.8	2.2	<2.0	3.9	4.8
MW-12D	10/25/13	16.33	82.59	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-12D	12/16/13	15.26	83.66	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-12D	03/27/14	14.08	84.84	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-12D	06/10/14	13.58	85.34	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-12D	09/18/14	15.04	83.88	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-12D	12/18/14	15.29	83.63	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0
MW-12D	03/13/15	15.66	83.26	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-12D	05/08/15	13.41	85.51	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-12D	07/24/15	13.62	85.30	<1.0	<1.0	<1.0	<1.0	<5.0	<5.0	<3.0
MW-12D	10/27/15	16.03	82.89	<1.00	<1.00	<1.00	<1.00	<5.00	<5.00	<3.00
MW-12D	Sampling was discontinued for MW-12D following eight or more quarters of results below the SHS-RUA.									

Notes: 1) NS = not sampled
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3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
EW-1	08/09/02	16.17	83.51	1,100	35	<25	560	<120	200	500
EW-1	09/18/02	--	--	36	<5.0	<5.0	12	<25	<25	<15
EW-1	08/29/03	14.49	85.19	81	1.4	<1.0	58	<5.0	<5.0	7.0
EW-1	04/14/05	--	--	21	1.1	--	13	--	<5.0	5.7
EW-1	05/18/05	14.53	85.15	1,800	220	<200	440	<100	<1,000	700
EW-1	08/11/05	16.88	82.80	630	44	<25	120	<100	<120	290
EW-1	10/19/05	17.02	82.66	540	92	<10	180	<50	62	360
EW-1	01/09/06	--	--	NS	NS	NS	NS	NS	NS	NS
EW-1	04/11/06	15.33	84.35	92	3.4	<1.0	34	<5.0	5.0	14
EW-1	07/19/06	16.68	83.00	5,600	370	<200	<63	220	910	2,600
EW-1	10/16/06	14.98	84.70	170	10	1.8	70	6	19	100
EW-1	03/20/07	12.80	86.88	510	390	17	45	130	180	1,900
EW-1	05/22/07	13.77	85.91	640	260	<10	140	480	280	2,700
EW-1	09/24/07	16.97	82.71	130	20	1.4	<1.0	14	15	220
EW-1	11/28/07	16.51	83.17	340	26	<10	91	<50	42	560
EW-1	01/30/08	14.13	85.55	240	91	4.7	40	39	58	560
EW-1	04/15/08	11.60	88.08	170	87	6.4	<1.0	48	35	620
EW-1	07/07/08	16.24	83.44	NS	NS	NS	NS	NS	NS	NS
EW-1	10/14/08	17.32	82.36	89	48	3.3	35	23	16	260
EW-1	01/21/09	14.75	84.93	NS	NS	NS	NS	NS	NS	NS
EW-1	04/14/09	13.46	86.22	390	390	14	34	120	100	1,800
EW-1	07/07/09	15.38	84.30	250	65	<10	45	<50	<50	280
EW-1	10/26/09	16.09	83.59	1,600	2,100	68	120	490	490	7,200
EW-1	02/23/10	15.10	84.58	230	280	13	20	75	64	1,000
EW-1	06/22/10	15.01	84.67	NS	NS	NS	NS	NS	NS	NS
EW-1	08/31/10	16.12	83.56	NS	NS	NS	NS	NS	NS	NS

Notes: 1) NS = not sampled
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Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naphthalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
EW-2	08/09/02	14.39	86.11	13,000	1,800	<500	35,000	<2,500	24,000	9,900
EW-2	09/18/02	--	--	1,100	<50	<50	17,000	<250	250	160
EW-2	08/29/03	--	--	NS	NS	NS	NS	NS	NS	NS
EW-2	05/18/05	15.48	85.02	12,000	1,500	<1,100	15,000	<25,000	17,000	12,000
EW-2	05/20/05	--	--	1,200	210	<25	1,600	<100	970	1,000
EW-2	05/20/05	--	--	5,000	1,000	<200	6,600	220	6,800	5,700
EW-2	08/11/05	17.76	82.74	8,300	370	<100	23,000	320	8,200	9,100
EW-2	10/19/05	18.15	82.35	9,000	8,700	<5,000	25,000	22,000	15,000	55,000
EW-2	01/09/06	15.58	84.92	Not sampled due to presence of SPL						
EW-2	04/11/06	16.33	84.17	Not sampled due to presence of SPL						
EW-2	07/19/06	16.39	84.11	14,000	2,400	<250	13,000	850	23,000	14,000
EW-2	10/16/06	15.60	84.90	24,000	5,900	490	7,100	1,300	35,000	31,000
EW-2	03/20/07	13.40	87.10	Not sampled due to presence of SPL						
EW-2	05/22/07	14.72	85.78	Not sampled due to presence of SPL						
EW-2	09/24/07	17.78	82.72	Not sampled due to presence of SPL						
EW-2	11/28/07	--	--	Not sampled due to presence of SPL						
EW-2	01/30/08	15.03	85.47	Not sampled due to presence of SPL						
EW-2	04/15/08	--	--	Not sampled due to presence of SPL						
EW-2	07/07/08	16.52	83.98	Not sampled due to presence of SPL						
EW-2	10/14/08	17.94	82.56	Not sampled due to presence of SPL						
EW-2	01/21/09	15.71	84.79	Not sampled due to presence of SPL						
EW-2	04/14/09	14.49	86.01	Not sampled due to presence of SPL						
EW-2	07/07/09	16.22	84.28	Not sampled due to presence of SPL						
EW-2	02/23/10	16.10	84.40	Not sampled due to presence of SPL						
EW-2	06/22/10	16.00	84.50	Not sampled due to presence of SPL						
EW-2	08/31/10	17.17	83.33	Not sampled due to presence of SPL						

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in **bold**.

Table 4.0: Historical Groundwater Analytical Results (cont.)

Well ID	Date	Depth to Water (feet)	GW Elevation (feet)	Parameters (ug/L)						
				Benzene	Ethyl-benzene	Cumene	MTBE	Naph-thalene	Toluene	Xylenes (total)
Statewide Health Standard, Residential, Used Aquifer				5	700	840	20	100	1,000	10,000
EW-3	08/09/02	16.96	83.90	450	65	16	780	9.1	140	130
EW-3	09/18/02	--	--	17	<5.0	<5.0	1,700	<25	<25	<15
EW-3	08/29/03	15.68	85.18	4,100	360	180	2,500	120	<250	260
EW-3	04/14/05	--	--	97	13	--	62	--	<5.0	44
EW-3	04/14/05	--	--	410	<120	--	140	--	<1,000	<380
EW-3	05/18/05	15.70	85.16	<1.0	<1.0	<1.0	140	<5.0	<5.0	<3.0
EW-3	08/11/05	18.05	82.81	6.8	1.2	<1.0	190	<5.0	<5.0	4.1
EW-3	10/19/05	--	--	NS	NS	NS	NS	NS	NS	NS
EW-3	01/09/06	--	--	NS	NS	NS	NS	NS	NS	NS
EW-3	04/11/06	--	--	NS	NS	NS	NS	NS	NS	NS
EW-3	07/19/06	16.52	84.34	18	1.0	<1.0	58	<5.0	<5.0	3.2
EW-3	10/16/06	15.97	84.89	170	24	--	260	--	7.3	36
EW-3	03/20/07	13.70	87.16	270	55	11	140	<25	<25	61
EW-3	05/22/07	14.93	85.93	230	44	12	200	<25	<25	28
EW-3	09/24/07	18.35	82.51	310	34	9.2	<5	14	<25	18
EW-3	11/28/07	19.16	81.70	150	14	6.6	120	<25	<5.0	<15
EW-3	01/30/08	15.19	85.67	450	62	17	210	22	9.2	25
EW-3	04/15/08	13.09	87.77	170	19	10	54	<25	<25	15
EW-3	07/07/08	16.78	84.08	NS	NS	NS	NS	NS	NS	NS
EW-3	10/14/08	18.21	82.65	140	6.2	8.7	60	5.9	<5.0	8.7
EW-3	01/21/09	15.92	84.94	NS	NS	NS	NS	NS	NS	NS
EW-3	04/14/09	14.80	86.06	180	9.4	6.8	35	4.7	8.8	15
EW-3	07/07/09	16.52	84.34	160	9.1	7.3	13	<5.0	<5.0	9.1
EW-3	10/26/09	17.59	83.27	380	9.7	11	15	42	<25	31
EW-3	02/23/10	16.25	84.61	320	73	32	35	<25	<25	46
EW-3	06/22/10	16.22	84.64	NS	NS	NS	NS	NS	NS	NS
EW-3	08/31/10	17.36	83.50	NS	NS	NS	NS	NS	NS	NS
IP-1	06/07/12	14.50	--	240	1,200	86	<13	260	660	5,200
IP-1	06/11/12	10.67	--	33	160	17	<1.0	48	100	500
IP-1	06/14/12	14.42	--	70	240	18	<5.0	92	140	830
IP-1	06/21/12	14.94	--	190	540	30	5.1	140	540	2,200
IP-1	06/28/12	15.21	--	380	580	34	6.0	170	750	2,400
IP-1	07/13/12	15.73	--	710	680	35	11	190	1,200	3,100
IP-1	02/25/13	--	--	4,900	2,100	84	110	480	3,400	8,100
IP-1	06/21/13	--	--	4,700	2,000	<100	89	530	1,200	3,800

Notes: 1) NS = not sampled
2) DUP = blind duplicate
3) Concentrations exceeding the Statewide Health Standard for Residential, Used Aquifers are presented in bold.

ATTACHMENT A

December 16, 2016

Ms. Sara Giordano
Insite Group, Inc.
611 S. Irvine Ave.
Sharon, PA 16146

RE: Project: Arch Street - QTR
Pace Project No.: 30204980

Dear Ms. Giordano:

Enclosed are the analytical results for sample(s) received by the laboratory on December 09, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Samantha Bayura
samantha.bayura@pacelabs.com
Project Manager

Enclosures

cc: Insite Group, Insite Group, Inc.
Kristin Kelly, Insite Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Arch Street - QTR

Pace Project No.: 30204980

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

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SAMPLE ANALYTE COUNT

Project: Arch Street - QTR

Pace Project No.: 30204980

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30204980001	MW-1	EPA 8260B	LEL	11	PASI-PA
30204980002	MW-2	EPA 8260B	LEL	11	PASI-PA
30204980003	MW-3	EPA 8260B	LEL	11	PASI-PA
30204980004	MW-4	EPA 8260B	LEL	11	PASI-PA
30204980005	MW-8	EPA 8260B	LEL	11	PASI-PA
30204980006	MW-9	EPA 8260B	LEL	11	PASI-PA
30204980007	MW-10	EPA 8260B	LEL	11	PASI-PA
30204980008	MW-12	EPA 8260B	LEL	11	PASI-PA
30204980009	MW-51	EPA 8260B	LEL	11	PASI-PA

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-1		Lab ID: 30204980001	Collected: 12/07/16 14:24	Received: 12/09/16 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	86.5	ug/L	1.0	1		12/14/16 07:22	71-43-2	
Ethylbenzene	357	ug/L	1.0	1		12/14/16 07:22	100-41-4	
Isopropylbenzene (Cumene)	41.9	ug/L	1.0	1		12/14/16 07:22	98-82-8	
Methyl-tert-butyl ether	7.3	ug/L	1.0	1		12/14/16 07:22	1634-04-4	
Naphthalene	125	ug/L	2.0	1		12/14/16 07:22	91-20-3	
Toluene	32.8	ug/L	1.0	1		12/14/16 07:22	108-88-3	
Xylene (Total)	636	ug/L	3.0	1		12/14/16 07:22	1330-20-7	
Surrogates								
Toluene-d8 (S)	101	%	84-115	1		12/14/16 07:22	2037-26-5	
4-Bromofluorobenzene (S)	101	%	81-119	1		12/14/16 07:22	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-126	1		12/14/16 07:22	17060-07-0	
Dibromofluoromethane (S)	78	%	70-130	1		12/14/16 07:22	1868-53-7	

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-2		Lab ID: 30204980002		Collected: 12/07/16 14:09		Received: 12/09/16 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260B MSV		Analytical Method: EPA 8260B							
Benzene	1450	ug/L	20.0	20		12/14/16 05:04	71-43-2		
Ethylbenzene	215	ug/L	1.0	1		12/14/16 04:38	100-41-4		
Isopropylbenzene (Cumene)	128	ug/L	1.0	1		12/14/16 04:38	98-82-8		
Methyl-tert-butyl ether	1.4	ug/L	1.0	1		12/14/16 04:38	1634-04-4		
Naphthalene	56.4	ug/L	2.0	1		12/14/16 04:38	91-20-3		
Toluene	151	ug/L	1.0	1		12/14/16 04:38	108-88-3		
Xylene (Total)	591	ug/L	3.0	1		12/14/16 04:38	1330-20-7		
Surrogates									
Toluene-d8 (S)	103	%	84-115	1		12/14/16 04:38	2037-26-5		
4-Bromofluorobenzene (S)	100	%	81-119	1		12/14/16 04:38	460-00-4		
1,2-Dichloroethane-d4 (S)	101	%	77-126	1		12/14/16 04:38	17060-07-0		
Dibromofluoromethane (S)	90	%	70-130	1		12/14/16 04:38	1868-53-7		

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-3		Lab ID: 30204980003		Collected: 12/07/16 13:44		Received: 12/09/16 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260B MSV		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		12/14/16 01:42	71-43-2		
Ethylbenzene	ND	ug/L	1.0	1		12/14/16 01:42	100-41-4		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/14/16 01:42	98-82-8		
Methyl-tert-butyl ether	3.6	ug/L	1.0	1		12/14/16 01:42	1634-04-4		
Naphthalene	ND	ug/L	2.0	1		12/14/16 01:42	91-20-3		
Toluene	ND	ug/L	1.0	1		12/14/16 01:42	108-88-3		
Xylene (Total)	ND	ug/L	3.0	1		12/14/16 01:42	1330-20-7		
Surrogates									
Toluene-d8 (S)	96	%	84-115	1		12/14/16 01:42	2037-26-5		
4-Bromofluorobenzene (S)	98	%	81-119	1		12/14/16 01:42	460-00-4		
1,2-Dichloroethane-d4 (S)	98	%	77-126	1		12/14/16 01:42	17060-07-0		
Dibromofluoromethane (S)	102	%	70-130	1		12/14/16 01:42	1868-53-7		

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-4		Lab ID: 30204980004		Collected: 12/07/16 13:33		Received: 12/09/16 10:15		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		12/14/16 00:52	71-43-2		
Ethylbenzene	ND	ug/L	1.0	1		12/14/16 00:52	100-41-4		
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		12/14/16 00:52	98-82-8		
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/14/16 00:52	1634-04-4		
Naphthalene	ND	ug/L	2.0	1		12/14/16 00:52	91-20-3		
Toluene	ND	ug/L	1.0	1		12/14/16 00:52	108-88-3		
Xylene (Total)	ND	ug/L	3.0	1		12/14/16 00:52	1330-20-7		
Surrogates									
Toluene-d8 (S)	95	%	84-115	1		12/14/16 00:52	2037-26-5		
4-Bromofluorobenzene (S)	100	%	81-119	1		12/14/16 00:52	460-00-4		
1,2-Dichloroethane-d4 (S)	97	%	77-126	1		12/14/16 00:52	17060-07-0		
Dibromofluoromethane (S)	101	%	70-130	1		12/14/16 00:52	1868-53-7		

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-8		Lab ID: 30204980005		Collected: 12/07/16 14:38		Received: 12/09/16 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260B MSV		Analytical Method: EPA 8260B							
Benzene	380	ug/L	50.0	50		12/14/16 06:57	71-43-2		
Ethylbenzene	548	ug/L	50.0	50		12/14/16 06:57	100-41-4		
Isopropylbenzene (Cumene)	38.8	ug/L	1.0	1		12/14/16 06:19	98-82-8		
Methyl-tert-butyl ether	131	ug/L	1.0	1		12/14/16 06:19	1634-04-4		
Naphthalene	121	ug/L	2.0	1		12/14/16 06:19	91-20-3		
Toluene	44.8	ug/L	1.0	1		12/14/16 06:19	108-88-3		
Xylene (Total)	1100	ug/L	150	50		12/14/16 06:57	1330-20-7		
Surrogates									
Toluene-d8 (S)	100	%	84-115	1		12/14/16 06:19	2037-26-5		
4-Bromofluorobenzene (S)	103	%	81-119	1		12/14/16 06:19	460-00-4		
1,2-Dichloroethane-d4 (S)	97	%	77-126	1		12/14/16 06:19	17060-07-0		
Dibromofluoromethane (S)	92	%	70-130	1		12/14/16 06:19	1868-53-7		

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-9		Lab ID: 30204980006		Collected: 12/07/16 14:17		Received: 12/09/16 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260B MSV		Analytical Method: EPA 8260B							
Benzene	98.4	ug/L	1.0	1		12/14/16 03:48	71-43-2	C8	
Ethylbenzene	96.5	ug/L	1.0	1		12/14/16 03:48	100-41-4		
Isopropylbenzene (Cumene)	17.7	ug/L	1.0	1		12/14/16 03:48	98-82-8		
Methyl-tert-butyl ether	18.1	ug/L	1.0	1		12/14/16 03:48	1634-04-4		
Naphthalene	8.3	ug/L	2.0	1		12/14/16 03:48	91-20-3		
Toluene	3.4	ug/L	1.0	1		12/14/16 03:48	108-88-3		
Xylene (Total)	22.1	ug/L	3.0	1		12/14/16 03:48	1330-20-7		
Surrogates									
Toluene-d8 (S)	96	%	84-115	1		12/14/16 03:48	2037-26-5		
4-Bromofluorobenzene (S)	99	%	81-119	1		12/14/16 03:48	460-00-4		
1,2-Dichloroethane-d4 (S)	101	%	77-126	1		12/14/16 03:48	17060-07-0		
Dibromofluoromethane (S)	104	%	70-130	1		12/14/16 03:48	1868-53-7		

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-10		Lab ID: 30204980007		Collected: 12/07/16 14:01		Received: 12/09/16 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260B MSV		Analytical Method: EPA 8260B							
Benzene	206	ug/L	1.0	1		12/14/16 04:13	71-43-2		
Ethylbenzene	ND	ug/L	1.0	1		12/14/16 04:13	100-41-4		
Isopropylbenzene (Cumene)	6.3	ug/L	1.0	1		12/14/16 04:13	98-82-8		
Methyl-tert-butyl ether	2.2	ug/L	1.0	1		12/14/16 04:13	1634-04-4		
Naphthalene	ND	ug/L	2.0	1		12/14/16 04:13	91-20-3		
Toluene	3.2	ug/L	1.0	1		12/14/16 04:13	108-88-3		
Xylene (Total)	3.0	ug/L	3.0	1		12/14/16 04:13	1330-20-7		
Surrogates									
Toluene-d8 (S)	100	%	84-115	1		12/14/16 04:13	2037-26-5		
4-Bromofluorobenzene (S)	100	%	81-119	1		12/14/16 04:13	460-00-4		
1,2-Dichloroethane-d4 (S)	93	%	77-126	1		12/14/16 04:13	17060-07-0		
Dibromofluoromethane (S)	100	%	70-130	1		12/14/16 04:13	1868-53-7		

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-12		Lab ID: 30204980008	Collected: 12/07/16 13:53	Received: 12/09/16 10:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
Benzene	8.6	ug/L	1.0	1		12/14/16 02:58	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		12/14/16 02:58	100-41-4	
Isopropylbenzene (Cumene)	2.8	ug/L	1.0	1		12/14/16 02:58	98-82-8	
Methyl-tert-butyl ether	2.2	ug/L	1.0	1		12/14/16 02:58	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		12/14/16 02:58	91-20-3	
Toluene	3.9	ug/L	1.0	1		12/14/16 02:58	108-88-3	
Xylene (Total)	4.8	ug/L	3.0	1		12/14/16 02:58	1330-20-7	
Surrogates								
Toluene-d8 (S)	94	%	84-115	1		12/14/16 02:58	2037-26-5	
4-Bromofluorobenzene (S)	100	%	81-119	1		12/14/16 02:58	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-126	1		12/14/16 02:58	17060-07-0	
Dibromofluoromethane (S)	104	%	70-130	1		12/14/16 02:58	1868-53-7	

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ANALYTICAL RESULTS

Project: Arch Street - QTR

Pace Project No.: 30204980

Sample: MW-51		Lab ID: 30204980009		Collected: 12/07/16 14:45		Received: 12/09/16 10:15		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260B MSV		Analytical Method: EPA 8260B							
Benzene	375	ug/L	1.0	1		12/14/16 05:29	71-43-2		
Ethylbenzene	494	ug/L	20.0	20		12/14/16 05:54	100-41-4		
Isopropylbenzene (Cumene)	28.8	ug/L	1.0	1		12/14/16 05:29	98-82-8		
Methyl-tert-butyl ether	134	ug/L	1.0	1		12/14/16 05:29	1634-04-4		
Naphthalene	104	ug/L	2.0	1		12/14/16 05:29	91-20-3		
Toluene	36.0	ug/L	1.0	1		12/14/16 05:29	108-88-3		
Xylene (Total)	873	ug/L	3.0	1		12/14/16 05:29	1330-20-7		
Surrogates									
Toluene-d8 (S)	96	%	84-115	1		12/14/16 05:29	2037-26-5		
4-Bromofluorobenzene (S)	99	%	81-119	1		12/14/16 05:29	460-00-4		
1,2-Dichloroethane-d4 (S)	97	%	77-126	1		12/14/16 05:29	17060-07-0		
Dibromofluoromethane (S)	94	%	70-130	1		12/14/16 05:29	1868-53-7		

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QUALITY CONTROL DATA

Project: Arch Street - QTR

Pace Project No.: 30204980

QC Batch:	243233	Analysis Method:	EPA 8260B
QC Batch Method:	EPA 8260B	Analysis Description:	8260B MSV UST-WATER
Associated Lab Samples:	30204980001, 30204980002, 30204980003, 30204980004, 30204980005, 30204980006, 30204980007, 30204980008, 30204980009		

METHOD BLANK: 1196514

Matrix: Water

Associated Lab Samples: 30204980001, 30204980002, 30204980003, 30204980004, 30204980005, 30204980006, 30204980007, 30204980008, 30204980009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	12/13/16 23:11	
Ethylbenzene	ug/L	ND	1.0	12/13/16 23:11	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	12/13/16 23:11	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/13/16 23:11	
Naphthalene	ug/L	ND	2.0	12/13/16 23:11	
Toluene	ug/L	ND	1.0	12/13/16 23:11	
Xylene (Total)	ug/L	ND	3.0	12/13/16 23:11	
1,2-Dichloroethane-d4 (S)	%	100	77-126	12/13/16 23:11	
4-Bromofluorobenzene (S)	%	99	81-119	12/13/16 23:11	
Dibromofluoromethane (S)	%	102	70-130	12/13/16 23:11	
Toluene-d8 (S)	%	97	84-115	12/13/16 23:11	

LABORATORY CONTROL SAMPLE: 1196515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	94	69-115	
Ethylbenzene	ug/L	20	19.4	97	71-116	
Isopropylbenzene (Cumene)	ug/L	20	19.3	97	79-121	
Methyl-tert-butyl ether	ug/L	20	19.1	95	83-140	
Naphthalene	ug/L	20	19.1	95	64-140	
Toluene	ug/L	20	19.4	97	70-115	
Xylene (Total)	ug/L	60	59.9	100	73-118	
1,2-Dichloroethane-d4 (S)	%			95	77-126	
4-Bromofluorobenzene (S)	%			99	81-119	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			102	84-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1196516 1196517

Parameter	Units	30204760001		MS		MSD		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Limit	RPD		
Benzene	ug/L	ND	20	20	20	18.1	19.1	91	96	63-123	5				
Ethylbenzene	ug/L	ND	20	20	20	18.0	18.9	90	94	70-120	5				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20	18.2	19.1	91	95	71-129	5				
Methyl-tert-butyl ether	ug/L	ND	20	20	20	17.4	17.6	87	88	63-143	1				
Naphthalene	ug/L	ND	20	20	20	17.2	17.4	86	87	55-122	1				
Toluene	ug/L	ND	20	20	20	18.3	18.8	92	94	66-124	3				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Arch Street - QTR

Pace Project No.: 30204980

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1196516 1196517											
Parameter	Units	30204760001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Xylene (Total)	ug/L	ND	60	60	54.6	56.7	91	94	68-123	4	
1,2-Dichloroethane-d4 (S)	%						94	92	77-126		
4-Bromofluorobenzene (S)	%						104	100	81-119		
Dibromofluoromethane (S)	%						94	97	70-130		
Toluene-d8 (S)	%						103	102	84-115		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Arch Street - QTR
Pace Project No.: 30204980

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

C8 Result may be biased high due to carryover from previously analyzed sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Arch Street - QTR

Pace Project No.: 30204980

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30204980001	MW-1	EPA 8260B	243233		
30204980002	MW-2	EPA 8260B	243233		
30204980003	MW-3	EPA 8260B	243233		
30204980004	MW-4	EPA 8260B	243233		
30204980005	MW-8	EPA 8260B	243233		
30204980006	MW-9	EPA 8260B	243233		
30204980007	MW-10	EPA 8260B	243233		
30204980008	MW-12	EPA 8260B	243233		
30204980009	MW-51	EPA 8260B	243233		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

30204980

Section A

Required Client Information:

Company: **Insite Group, Inc**
Address: **611 South Irvine Avenue**
Sharon, PA 16146
Email To: **lab@insitegroup.org**
Phone: **724-347-2101** Fax: **724-347-2139**
Requested Due Date/TAT:

Section B

Required Project Information:

Report To: **Sara Giordano**
Copy To:
Purchase Order No.:
Project Name: **Arch Street - QTR**
Project Number: **03-07315**

Section C

Invoice Information:

Attention: **Sara Giordano**
Company Name: **Same**
Address: **Same**
Pace Quote Reference:
Pace Project Manager: **Samantha Bayura**
Pace Profile #:

Page: 1 of 1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location

PA

STATE:

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information		Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Y/N ↓																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		
		<i>Susan Kelly</i>		12/8/16	1613	<i>RB-g</i>		Pace	12/9/16	1015	4.8	Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: **George Mueller**

SIGNATURE of SAMPLER: *George Mueller*

DATE Signed (MM/DD/YY):

12/7/16

Temp in °C

Received on Ice (Y/N)

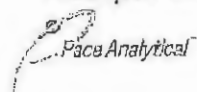
Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.06, 2-Feb-2007

Sample Condition Upon Receipt Pittsburgh



Client Name:

Insite Group

Project # 30204980

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 7060 2532 4810

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Thermometer Used

8

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temperature Observed Temp 4.6 °C Correction Factor: +0.2 °C Final Temp: 4.8 °C

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RTB 12/10/16

Comments:	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC:	X			5.
-Includes date/time/ID/Analysis Matrix: WT				
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):		X		7.
Rush Turn Around Time Requested:	X			8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Filtered volume received for Dissolved tests			X	12.
All containers needing preservation have been checked.	X		X	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	X		X	
exceptions: <u>VOA</u> , coliform, TOC, O&G, Phenolics				
				Initial when completed 12/10/16 RTB Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):		X		14.
Trip Blank Present:			X	15.
Trip Blank Custody Seals Present			X	
Rad Aqueous Samples Screened > 0.5 mrem/hr			X	Initial when completed: Date:

Client Notification/ Resolution:

Person Contacted: Date/Time: Contacted By:

Comments/ Resolution:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.