



March 5, 2019

Mr. Tom Coar
Environmental Group Manager
Environmental Cleanup and Brownfields Program
Pennsylvania Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18701-1915

**RE: Remedial Action Progress Report 1st Quarter 2019:
Pump-n-Pantry #001 Property;**
99 Grow Avenue
Bridgewater Township, Susquehanna County, Pennsylvania
PADEP Facility ID#58-13092
PADEP Incident Numbers #48572 & #50143
USTIF Claim Numbers #2015-0126(I) & #2017-0021(I)
LaBella Associates Project Numbers: 2171845 & 2171846

Dear Mr. Coar,

LaBella Associates, P.C. (LaBella) is pleased to present this Remedial Action Progress Report (RAPR) for the above-referenced Pump-n-Pantry #001 Property (subject property). The subject property is located at 99 Grow Avenue in Bridgewater Township, Susquehanna County, Pennsylvania. Refer to Attachment A for a Site Location Map (**Figure 1**). This report summarizes the results of the groundwater monitoring and sampling conducted at the subject property in the **1st Quarter of 2019**. The sampling activities summarized herein were completed in accordance with the guidelines and standards pursuant to the Pennsylvania Department of Environmental Protection's (PADEP's) "*Land Recycling and Environmental Remediation Standards Act*" (Act 2) of July, 1995, as amended; the Corrective Action Process under the *Pennsylvania Storage Tank and Spill Prevention Act* (25 PA Code Chapter 245.301 – 245.313, Corrective Action Process); "*Standard Practice for Low-Flow Purging and Sampling for Wells and Devices Used for Ground-Water Quality Investigations*" (ASTM D16771-02); and the PADEP's *Groundwater Monitoring Guidance Manual*, December 1, 2001.

Site Description

The Pump-n-Pantry #001 Property is located at 99 Grow Avenue in Bridgewater Township, Susquehanna County, Pennsylvania. The subject property is developed with one (1) wood-frame office building (~3,600 square feet), one (1) convenience store building (~6,000 square feet), two (2) fuel dispenser canopies and five (5) associated UST systems situated on 5.19 (+/-) acres of land. The subject property maintains PADEP Facility ID #58-13092 in association with the current UST systems. The subject property is associated with PADEP Incident Numbers #48572 and #50143. USTIF Claim Numbers #2015-0126(I) and #2017-0021(I) apply to these incidents,

respectively. The subject property is provided electricity by Penelec; water service is provided by the Pennsylvania American Water Company; and, sewer service is provided by the Montrose Municipal Authority. The convenience store building is heated via electric heat pumps. The site slopes to the southwest. The average elevation of the subject property is 1,650 feet above mean sea level (M.S.L.), as indicated on the U.S.G.S. (7.5 Minute Series) Montrose East, Pennsylvania Quadrangle. Refer to Attachment A for a Site Sketch (**Figure 2**).

Summary of Open Incidents

According to the PADEP, there are two (2) open incidents at the subject property that need to be resolved. Refer to Attachment A for an Incident Identification Map (**Figure 3**). The following summary is provided:

- **Incident #48572:** In 2015, facility-wide upgrade activities were conducted at the subject property. These activities included the construction of the current convenience store building and the installation of the five (5) current UST systems. The historical convenience store building was razed once the current store was in operation and the pre-existing UST systems were closed via removal. On October 21, 2015, Datom Products of Dunmore, Pennsylvania was completing the closure, via removal, of Tank #003 thru Tank #007 at the subject property. Soil and groundwater contamination was detected during the removal activities in association with Tank #004. Datom Products collected a series of soil and groundwater samples as part of the tank closure activities. Subsequent to the review of the analytical data, it was determined that soil contamination, at concentrations exceeding applicable standards, was also associated with Tank #003, Tank #006, Tank #007 and the gasoline dispenser island. In response to the soil and groundwater contamination, the PADEP drafted a Notice of Violation (NOV) indicating site characterization activities must be completed to investigate this release. The Underground Storage Tank and Indemnification Fund (USTIF) Claim #2015-0126(I) applies to this incident.

Status: LaBella submitted a combined RAP for Incident #48572 and Incident #50143 on February 25, 2019. The PADEP approval of this RAP is pending at the time of completion of this report.

- **Incident #50143:** On January 31, 2017, a release of gasoline occurred when a passenger vehicle backed over a fuel line during delivery at the gasoline USTs by Rich Tank Lines. This resulted in the release of 250 to 300 gallons of gasoline. On February 6, 2017, Northridge Group, Incorporated (Northridge) completed the excavation of the impacted soil. Soil attainment samples collected from the final excavation indicated that soil contamination has been remediated to applicable cleanup standards. Groundwater was encountered during the February 2017 remedial activities by Northridge. A groundwater sample collected from the final excavation indicated that groundwater contamination, at concentrations exceeding applicable cleanup standards, existed in association with this release. In response to the soil and groundwater contamination, the PADEP drafted an NOV indicating site characterization activities must be completed to investigate this release. USTIF Claim #2017-0021(I) applies to this incident.

- **Status:** LaBella submitted a combined RAP for Incident #48572 and Incident #50143 on February 25, 2019. The PADEP approval of this RAP is pending at the time of completion of this report.

Project Parameters

For the purpose of this investigation, all laboratory analyses will include a combination of the Unleaded Gasoline, Diesel Fuel / Fuel Oil #2 and Kerosene Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended December 15, 2012. (i.e. the Short List). A list of the Project Parameters is as follows:

- Benzene
- Cumene
- Ethylbenzene
- MTBE
- Naphthalene
- Toluene
- 1,2,4-TMB
- 1,3,5-TMB
- Total Xylenes

Interim Soil & Groundwater Remediation Activities - Incident #48572

As summarized in previous RAPRs, to date Datom Products and LaBella have completed the excavation and offsite disposal of 3,013.59 tons of petroleum-impacted soil from the subject property. In addition, a total of 25,300 gallons of petroleum impacted groundwater was pumped by Datom Products, treated onsite with activated carbon and discharged to the local POTW under permit from the local sewer authority.

Interim Soil Remediation Activities - Incident #50143

On February 6, 2017, Northridge Group, Incorporated completed the excavation of the impacted soil associated with the January 31, 2017 release. The final excavation measured 25 feet long by 7.25 feet wide. This excavation was completed to the top of the groundwater surface between six (6) and seven (7) feet below grade. Soil attainment samples collected from the final excavation indicated that soil contamination has been remediated to applicable cleanup standards. Copies of the laboratory analytical data sheets associated with the February 6, 2017 attainment soil samples were included in previous RAPRs. Subsurface impacts were identified in the vicinity of OW-4 in association with Incident #50143. LaBella completed the installation of a series a test borings and collected soil samples in the vicinity of OW-4 to confirm the absence of soil contamination in this area.

Interim Groundwater Remediation Activities - Incident #50143

Subsurface impacts at OW-4 were identified during previous sampling events at the subject property. Refer to Attachment A for a Monitoring Well Location Map (**Figure 4**) depicting the location of OW-4. In response to these impacts, LaBella completed one (1) High Vapor Extraction (HVE) event at OW-4. The HVE event at OW-4 was completed on September 13, 2017. Advanced Oil Recovery of Milford, Pennsylvania provided the vacuum truck and disposal services. During the HVE event depth to water and vacuum readings were collected at OW-4 and the surrounding monitoring / observation wells. Vacuum readings and Photoionization Detector (PID) readings of the air effluent from the vacuum truck were also recorded. The following observations are provided:

- A total of 1,622 gallons of water was extracted from OW-4 over a 7.7 hour period.
- Groundwater in the vicinity of OW-4 was drawn down 0.45 feet over the 7.7 hour HVE event.
- The vacuum truck operated at an average of 7.6 inches of mercury. This translated to an average of 0.87 inches of mercury at OW-4.
- No major vacuum influence was observed in the surrounding monitoring / observation wells.
- PID readings collected from the air effluent of the vacuum truck indicated volatile organic compound (VOC) concentrations decreased during the HVE event at OW-4.

Site Characterization Activities

Groundwater Monitoring Well Installation – Incident #48572

Between August 19, 2016, February 9, 2017 and September 13, 2017, LaBella completed the field activities associated with the installation of eleven (11) groundwater monitoring wells (MW-1 thru MW-10 and MW-15) at the subject property. This work was completed to characterize the shallow groundwater aquifer located onsite in association with the groundwater contamination identified in October 2015 (PADEP Incident #48572). Refer to Appendix A for a Monitoring Well Location Map (**Figure 4**) depicting the locations of the groundwater monitoring wells.

Each groundwater monitoring well was completed utilizing a combination of hollow stem auger and air rotary drilling techniques. Each groundwater monitoring well was constructed by lowering PVC screen (0.010 slot) and PVC riser into the borehole. MW-1 through MW-6 were completed as four (4) inch diameter wells. MW-7 through MW-10 and MW-15 were completed as two (2) inch diameter wells. A sand pack consisting of No. 1 Morie sand was placed within the screened interval. A bentonite seal, consisting of bentonite pellets, was placed above the sand pack. Each well was completed with a flush grade manway with locking inner cap. Refer to Attachment B for the associated Monitoring Well Logs and to Attachment C for the associated Well Construction Details. A summary of the well construction information is included in Table 1, as follows:

Table 1
Pump-n-Pantry #001 Property
Well Construction Information

Well #	Depth	Screen Size	Screen Interval	Sand Size	Sand Interval
MW-1	20.64'	0.010 Slot	20.64' – 3.64'	No. 1	21.00' – 2.64'
MW-2	20.66'	0.010 Slot	20.66' – 3.66'	No. 1	21.00' – 2.66'
MW-3	20.16'	0.010 Slot	20.16' – 3.16'	No. 1	21.00' – 2.16'
MW-4	15.35'	0.010 Slot	15.35' – 3.35'	No. 1	21.00' – 2.35'
MW-5	20.32'	0.010 Slot	20.32' – 3.32'	No. 1	21.00' – 2.32'
MW-6	20.46'	0.010 Slot	20.46' – 3.46'	No. 1	21.00' – 2.46'
MW-7	20.23'	0.010 Slot	20.23' – 3.23'	No. 1	21.00' – 2.00'
MW-8	20.41'	0.010 Slot	20.41' – 3.14'	No. 1	20.50' – 2.00'
MW-9	19.80'	0.010 Slot	19.80' – 2.80'	No. 1	20.50' – 2.00'
MW-10	19.34'	0.010 Slot	19.34' – 2.34'	No. 1	21.00' – 2.00'
MW-15	19.60'	0.010 Slot	19.60' – 2.60'	No. 1	20.00' – 2.00'

Groundwater Monitoring Well Installation – Incident #50143

Between April 19, 2017 and April 20, 2017, LaBella completed the field activities associated with the installation of four (4) groundwater monitoring wells (MW-11 thru MW-14) at the subject property. This work was completed to characterize the shallow groundwater aquifer located onsite in association with the groundwater contamination identified in January 2017 (PADEP Incident #50143). Refer to Appendix A for a Monitoring Well Location Map (**Figure 4**) depicting the locations of the groundwater monitoring wells.

Each groundwater monitoring well was completed utilizing a combination of hollow stem auger and air rotary drilling techniques. Each groundwater monitoring well was constructed by lowering two (2) inch PVC screen (0.010 slot) and PVC riser into the borehole. A sand pack consisting of No. 1 Morie sand was placed within the screened interval. A bentonite seal, consisting of bentonite pellets, was placed above the sand pack. Each well was completed with a flush grade manway with locking inner cap. Refer to Attachment B for the associated Monitoring Well Logs and to Attachment C for the associated Well Construction Details. A summary of the well construction information is included in Table 2, as follows:

Table 2
Pump-n-Pantry #001 Property
Well Construction Information

Well #	Depth	Screen Size	Screen Interval	Sand Size	Sand Interval
MW-11	20.56'	0.010 Slot	20.56' – 3.56'	No. 1	21.00' – 2.00'
MW-12	20.56'	0.010 Slot	20.56' – 3.56'	No. 1	21.00' – 2.00'
MW-13	19.09'	0.010 Slot	19.09' – 3.09'	No. 1	20.00' – 2.00'
MW-14	20.12'	0.010 Slot	20.12' – 3.12'	No. 1	20.50' – 2.00'

Quarterly Groundwater Monitoring Activities

The field activities associated with the groundwater sampling program were conducted on February 18 and 19, 2019 by LaBella. These activities included the collection of groundwater samples from the fourteen (14) of the fifteen (15) monitoring wells and four (4) UST cavity observation wells. MW-7 was covered over by a large snow pile and, as such, was not sampled. Former recovery well RW-1 was destroyed by snow plowing activities sometime prior to the sampling event and was not sampled. MW-11 was purged and sampled as planned; however, the sample glassware was subsequently destroyed in transit to ALS. A Monitoring Well Location Map (**Figure 4**) depicting the locations of the groundwater monitoring wells, observation wells and recovery well is included in Attachment A of this report. Refer to Attachment D for field notes generated as part of the field activities. The scope of work associated with the completion of the groundwater sampling activities included the purging of the groundwater monitoring wells utilizing low flow / low stress and hand-bailing methods. Purging activities included the monitoring of pH, temperature, specific conductance, dissolved oxygen (D.O.), turbidity (low flow only) and oxidation-reduction potential (O.R.P). In accordance with the provisions of the PADEP *Groundwater Monitoring Guidance Manual* (December 1, 2001 edition), the groundwater effluent generated during the well purging activities was containerized onsite pending disposal considerations.

The eighteen (18) groundwater samples, plus two (2) QA/QC Field Blanks, were delivered to ALS Environmental in Middletown, Pennsylvania. Nineteen (19) of twenty (20) samples delivered were analyzed for a combination of the Unleaded Gasoline, Diesel Fuel / Fuel Oil #2 and Kerosene Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended December 15, 2012. (i.e. the Short List). In addition, seven (7) of the fifteen (15) groundwater samples (i.e. MW-1 thru MW-15) were field analyzed for Manganese, Ferrous Iron, Nitrate and Sulfate to further characterize the chemical properties of the shallow aquifer beneath the study area. A Sample Log is provided as Table 3, as follows:

Table 3
Pump-n-Pantry #001 Property
Sample Log
February 2019 Field Activities

Sample Number	Sample Description	Analysis
112-0218-MW1	MW-1	Project Parameters
112-0218-MW2	MW-2	Project Parameters
112-0218-MW3	MW-3	Project Parameters
112-0218-MW4	MW-4	Project Parameters
112-0218-MW5	MW-5	Project Parameters
112-0218-MW6	MW-6	Project Parameters
112-0218-MW7	MW-7	Project Parameters
112-0218-MW8	MW-8	Project Parameters
112-0218-MW9	MW-9	Project Parameters
112-0218-MW10	MW-10	Project Parameters
112-0218-MW11	MW-11	Project Parameters
112-0218-MW12	MW-12	Project Parameters
112-0218-MW13	MW-13	Project Parameters

Table 3 (Cont.)
Pump-n-Pantry #001 Property
Sample Log
February 2019 Field Activities

Sample Number	Sample Description	Analysis
112-0218-MW14	MW-14	Project Parameters
112-0218-MW15	MW-15	Project Parameters
112-0218-OW1	OW-1	Project Parameters
112-0218-OW2	OW-2	Project Parameters
112-0218-OW3	OW-3	Project Parameters
112-0218-OW4	OW-4	Project Parameters
112-0218-FB1	QA/QC Field Blank	Project Parameters
112-0218-FB2	QA/QC Field Blank	Project Parameters

Separate Phase Liquids

No measurable SPL was detected in any of the groundwater monitoring points.

Determination of Groundwater Flow

As part of the groundwater sampling activities, LaBella constructed a groundwater contour map to determine the direction of groundwater flow beneath the study area. LaBella utilized the depth to groundwater data collected at the site during the February 18, 2018 field activities. Kiley Associates of Lakeville, Pennsylvania determined the well casing elevations via the completion of a site survey and level run. These elevations were referenced to a local USGS benchmark. The direction of groundwater flow was determined via the use of EnviroInsite 10.0 software (copyright EarthSoft, Incorporated, 2017). A table summarizing the historical depth to groundwater data and the associated groundwater elevation information is provided in Attachment E. Groundwater contour maps are provided in Attachment F. Site-specific observations are as follows.

- A review of local topography and local drainage patterns indicates the subject property lies along a surface water divide. The surface water from the area of MW-1 and the current office building flows to the north-northeast toward Lake Montrose. Surface water from the majority of the subject property flows to the south-southwest.
- The most recent groundwater contour map (i.e. February 18, 2019), which included fourteen (14) of fifteen (15) monitoring wells, indicates the shallow groundwater beneath the subject property flows to the southwest.
- One (1) hydraulic gradient was calculated for the February 18, 2019 data. The hydraulic gradient at the subject property was determined to be **0.0185 feet / foot** toward the southwest.
 - The hydraulic gradient (i) was determined using the groundwater elevations (h) associated with MW-2 (h₁) and MW-10 (h₂).
 - The distance (d) between these wells is 317 feet.

- $(i) = (h_1 - h_2) / d$.
- $(i) = (1,649.14 - 1,643.28) / 317 = \mathbf{0.0185 \text{ ft/ft}}$ (02/18/19 data).

Due to the absence of deep monitoring wells onsite, an evaluation of the vertical component of flow could not be determined.

Analytical Results

General

The analytical results associated with the **1st Quarter 2019** groundwater sampling event were received by LaBella from ALS Environmental. The contaminant concentrations detected were compared to the standards included in Pennsylvania's "*Land Recycling and Environmental Remediation Standards Act*" (Act 2) of July, 1995, as amended. Refer to Attachment G for copies of the groundwater analytical data sheets associated with the **1st Quarter 2019** groundwater monitoring event.

Comparison of Groundwater Data to Statewide Health Standard MSCs - Incident #48572

The results of the groundwater sampling program indicate petroleum-related contamination was detected in seven (7) of the thirteen (13) groundwater samples collected from the monitoring wells and observations wells associated PADEP Incident #48572. These five (5) groundwater samples had compound concentrations in excess of the respective Non-Residential, Used Aquifer (TDS <2,500 mg/l) Statewide Health Standard MSCs. Refer to Attachment H for a table summarizing the groundwater analytical data (**Table H-1**). Groundwater isopleth maps are provided in Attachment I of this report. A summary of the exceedances is provided in Table 4.

Table 4
Pump-n-Pantry #001 Property
Summary of Groundwater Exceedances (ug/l) – Incident #48572
February 2019 Field Activities

Location	Parameter	Concentration	Act 2 MSC
MW-2	Benzene	30.2 µg/l	5.0 µg/l
	1,2,4-TMB	90.0 µg/l	62 µg/l
MW-3	Benzene	38.0 µg/l	5 µg/l
MW-4	Benzene	465 µg/l	5 µg/l
MW-5	Benzene	101 µg/l	5 µg/l
MW-15	Benzene	42.3 µg/l	5 µg/l
	1,2,4-TMB	297 µg/l	62 µg/l

Comparison of Groundwater Data to Statewide Health Standard MSCs - Incident #50143

The results of the groundwater sampling program indicate no petroleum-related contamination was detected in any of the five (5) groundwater samples collected from the monitoring wells and observations wells associated PADEP Incident #50143. All compound concentrations were below the laboratory Method Detection Limits (MDLs) for each compound analyzed. Furthermore, all MDLs were below the respective Non-Residential, Used Aquifer (TDS <2,500 mg/l) Statewide Health Standard MSCs. Refer to Attachment H for a table summarizing the groundwater analytical data (**Table H-1**). Groundwater isopleth maps are provided in Attachment I of this report.

Review of Site-Specific Intrinsic Data

A review of the site-specific in-situ data was completed utilizing the February 2019 data. For the purpose of this data evaluation, MW-6 was utilized as the background well. Refer to Attachment H for a summary of the intrinsic data (**Table H-2**). The following is offered.

- Dissolved Oxygen (DO): A review of DO data indicates the background DO concentration was 0.00 mg/l (MW-6) on February 19, 2019. Generally, DO concentrations above 2.0 mg/l are required for aerobic biodegradation to occur. Overall, DO concentrations are higher outside the contaminant plume than inside.
- Oxidation-Reduction Potential (ORP): A review of ORP data indicates ORP values are negative inside the plume and positive elsewhere (e.g. -119 mV at MW-1), indicating chemically reducing conditions (anaerobic conditions) are prevalent. Dissolved oxygen concentrations were lowest where ORP is negative. This relationship indicates the presence of a reducing environment.
- Ferrous Iron (Fe+2): A review of in-situ data indicates Fe+2 concentrations are generally higher inside the contaminant plume than outside. These data suggest that Fe+3 is being used as an electron acceptor, which indicates the presence of a reducing environment throughout much of the study area.
- Sulfate: A review of in-situ data indicates Sulfate concentrations are generally lower within the contaminant plume than outside. These data suggest that Sulfate is being used as an electron acceptor during anaerobic biodegradation. Overall, the Sulfate data is not a good indicator of naturally occurring biodegradation.
- Nitrate: A review of in-situ data indicates Nitrate concentrations are generally lower inside and downgradient of the contaminant plume. These data suggest that Nitrate is being used as an electron acceptor during anaerobic biodegradation. The Nitrate data is not as profound as the Fe+2 data.
- Manganese (Mn+2): A review of in-situ data indicates Mn+2 concentrations are generally higher inside the contaminant plume than outside. These data suggest that Mn+4 is being used as a terminal electron acceptor during anaerobic biodegradation, resulting in increased Mn+2.

A review of site-specific in-situ data indicates that the background DO concentration in MW-1 is adequate to sustain aerobic activity at the subject property. A review of the DO vs. ORP relationship and metals data suggests aerobic biodegradation is occurring at the subject property until the dissolved oxygen is depleted, at which point anaerobic biodegradation becomes prevalent.

Temporal Trend Analysis

Time-series graphs were prepared for each compound that exceeded the respective MSCs within the last five (5) groundwater sampling events. These graphs are included in Attachment J. A linear regression best-fit trend line was fit to the time-series data on each graph using the trend line function in MS Excel. Refer to Table 5 for a summary of the trends have been identified based on a review of the time-series graphs.

Table 5
Pump-n-Pantry #001 Property
Groundwater Analytical Data – Trend Summary

Well #	Compound	Trend	Concentration
MW-2	Benzene	Decreasing	Above MSC
	MTBE	Stable	Below MSC
	1,2,4-TMB	Decreasing	Above MSC
MW-3	Benzene	Decreasing	Above MSC
MW-4	Benzene	Increasing	Above MSC
MW-5	Benzene	Decreasing	Above MSC
	MTBE	Decreasing	Below MSC
	1,2,4-TMB	Decreasing	Below MSC
MW-15	Benzene	Decreasing	Above MSC
	Ethylbenzene	Decreasing	Below MSC
	Naphthalene	Decreasing	Below MSC
	Toluene	Decreasing	Below MSC
	1,2,4-TMB	Decreasing	Above MSC
OW-4	Benzene	Stable	Below MSC
	Ethylbenzene	Stable	Below MSC
	Naphthalene	Stable	Below MSC
	Toluene	Stable	Below MSC
	1,2,4-TMB	Stable	Below MSC

Ongoing / Proposed Activities

On February 25, 2019, LaBella submitted a Remedial Action Plan (RAP) to the Pennsylvania Department of Environmental Protection. A 60-day turnaround regarding Approval/Comments regarding the RAP was pending at the time of completion of this report. Upon receipt of Approval/Comments, LaBella will initiate the implementation of the RAP on or before April 26, 2019.

Table 6
Proposed Compliance Schedule
Pump-n-Pantry #001 Property

Task	Description	Proposed Date
0.0	Submit Remedial Action Plan to PADEP	February 25, 2019
	Receive PADEP Approval / Comments (60-Day Review)	April 25, 2019
	Implement Remedial Action Plan	April 26, 2019

Closing

I trust this information meets your needs. Please do not hesitate to contact me if you have any questions or comments regarding the contents of this report or the project in general.

Sincerely,



Martin Gilgallon, P.G.
Licensed Professional Geologist
LaBella Associates, P.C.



"By affixing my seal to this report, I am certifying that the information is true and correct. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information"

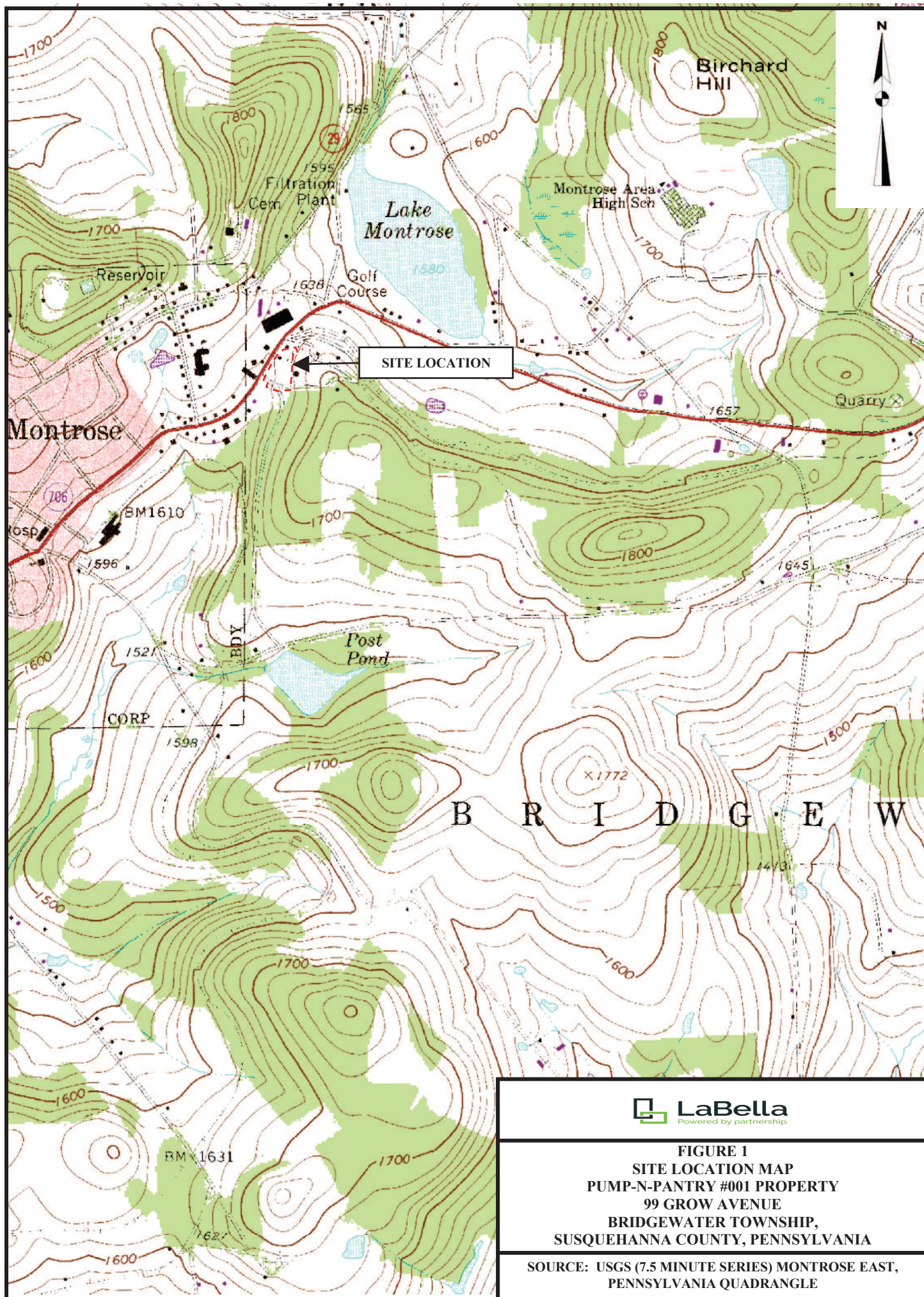
MM/mg – 2171845

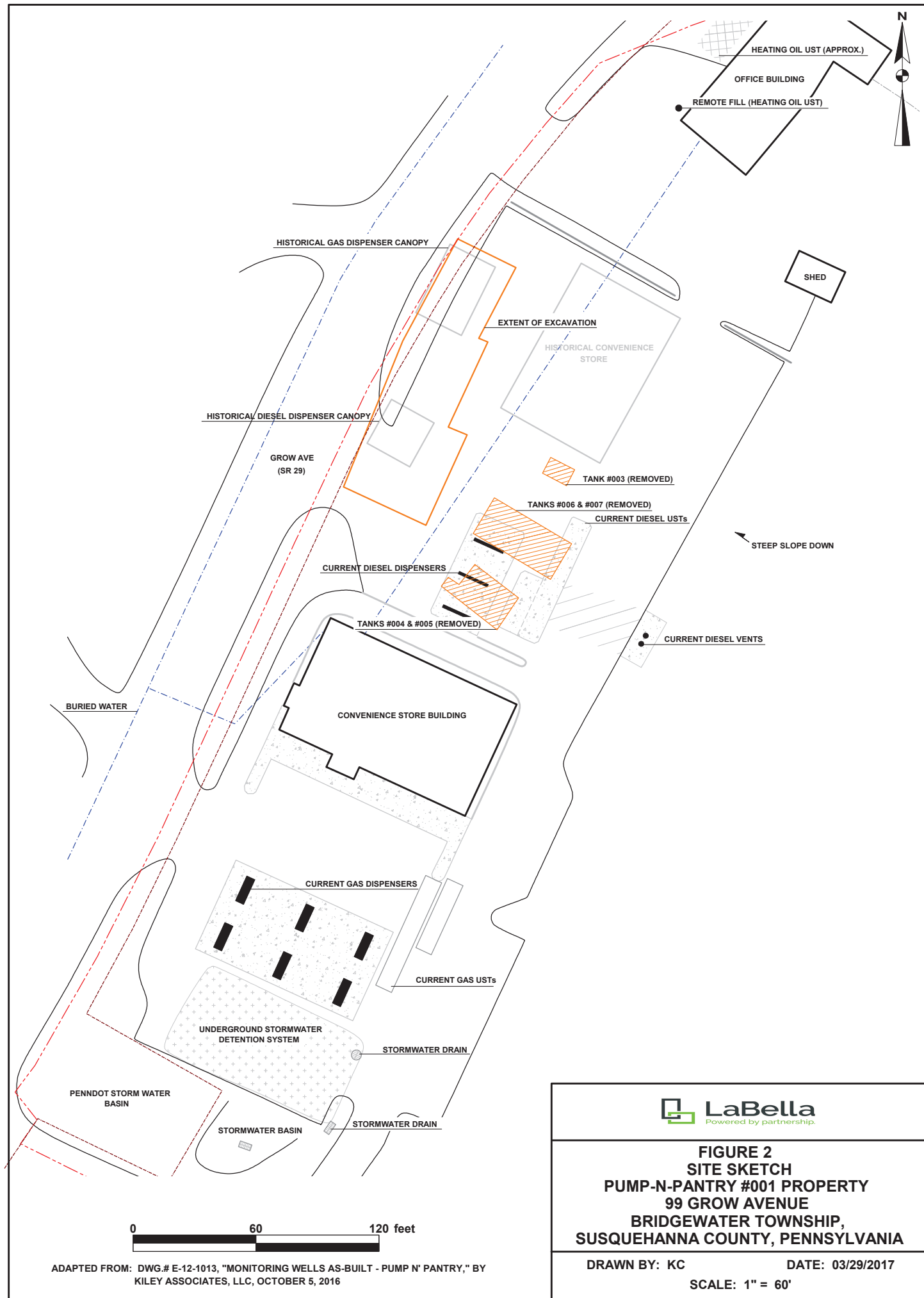
Attachments

cc: Mr. Scott Quigg / Pump-n-Pantry
Ms. Linda Melvin / ICF International
LaBella Associates File # 2171845 & 2171846

ATTACHMENT A

Site Maps and Figures



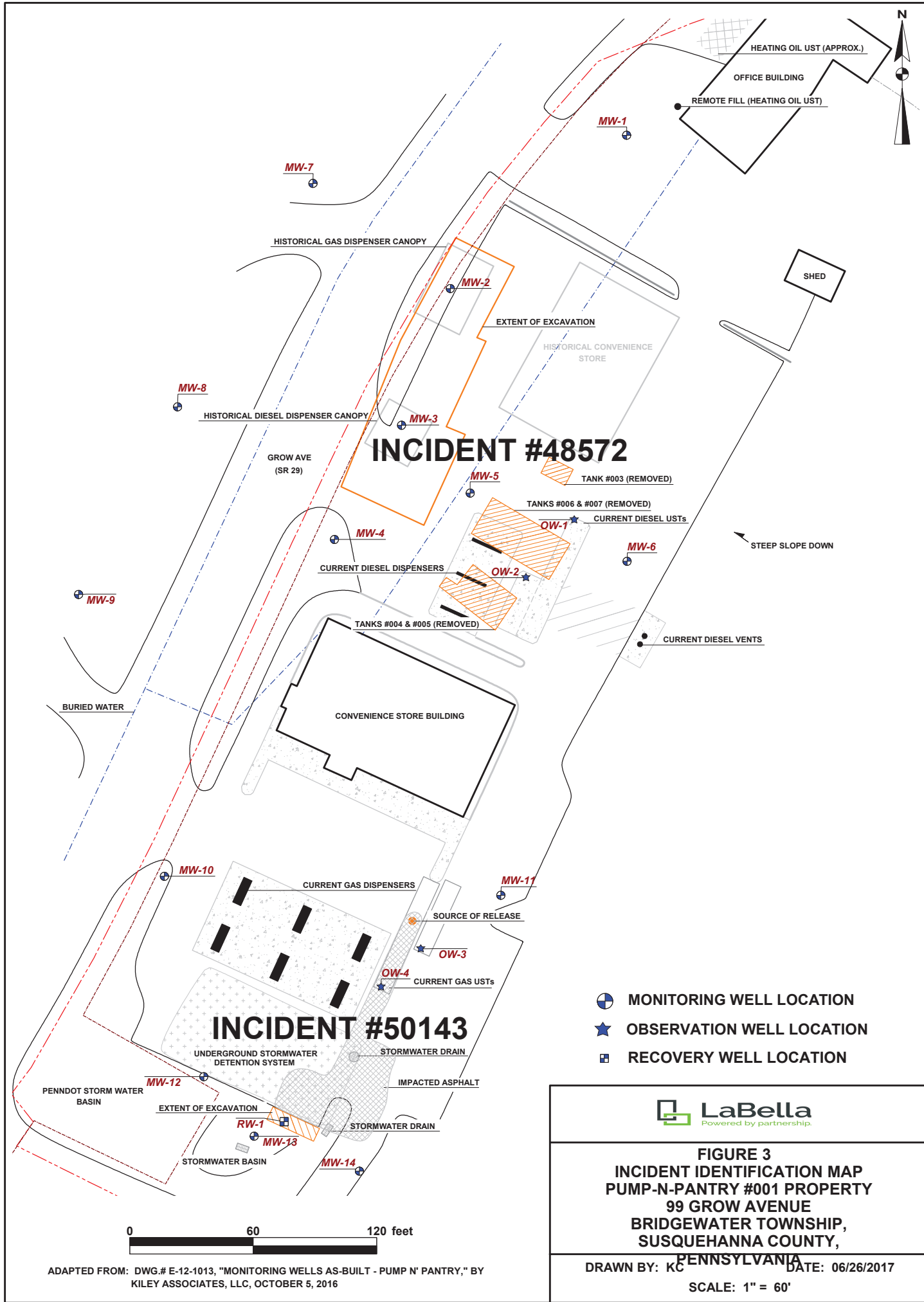


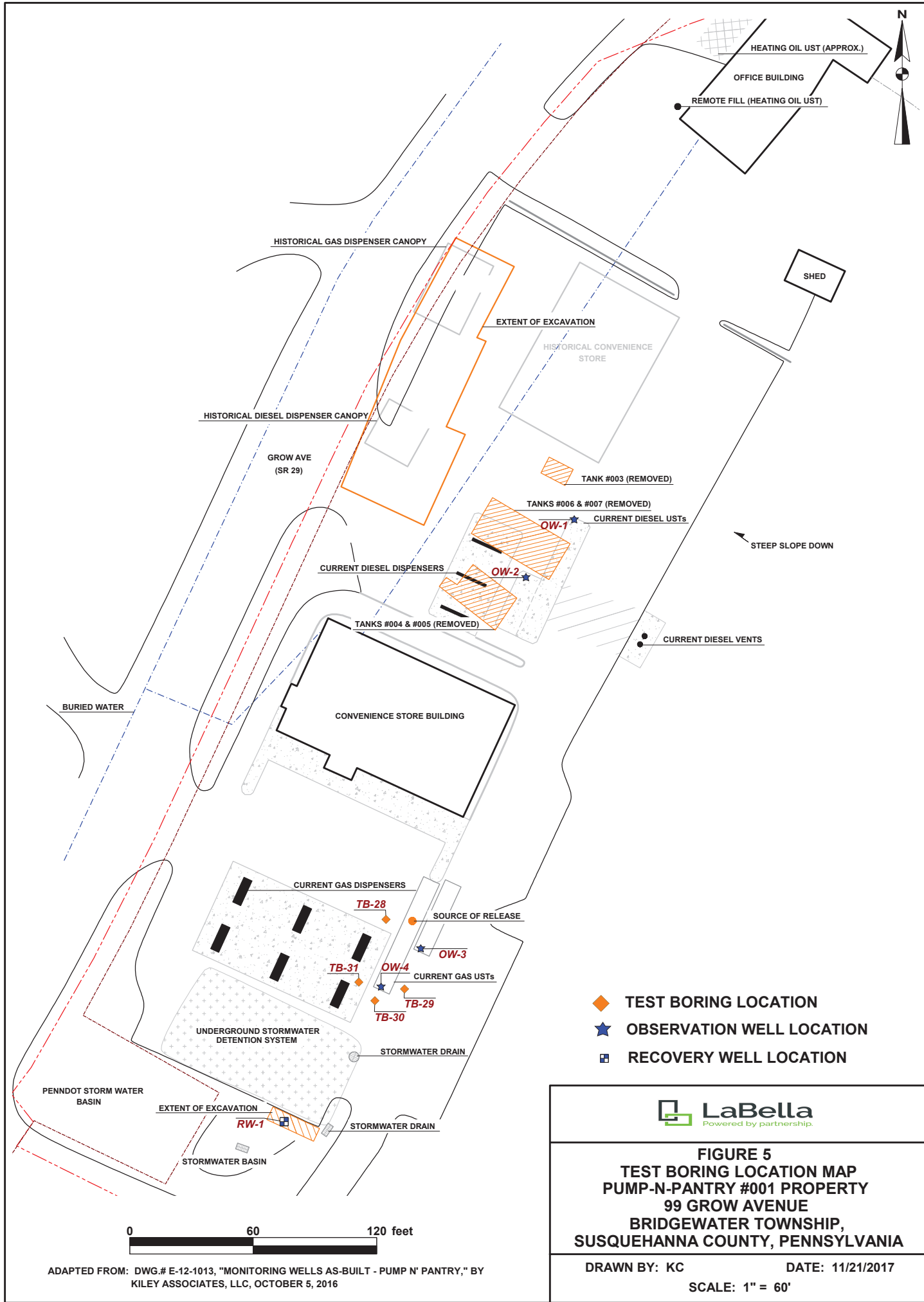
ADAPTED FROM: DWG.# E-12-1013, "MONITORING WELLS AS-BUILT - PUMP N' PANTRY," BY KILEY ASSOCIATES, LLC, OCTOBER 5, 2016



FIGURE 2
SITE SKETCH
PUMP-N-PANTRY #001 PROPERTY
99 GROW AVENUE
BRIDGEWATER TOWNSHIP,
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 03/29/2017
SCALE: 1" = 60'





ATTACHMENT B

Monitoring Well Logs

LaBella Associates, P.C.

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 19, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 19, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-1

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		7:50	8:40	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 5.0'	Asphalt Surface	
1---				Dark brown and medium brown		
---				sand and silt with sub-rounded		
2---				pebbles and cobbles		

3---						

4---						

5---		0.0		5.0' - 10.0'	Hard / Steady 5.0'-8.0'	
---				Medium dark gray (N4), well		
6---				sorted fine-medium grained		
---				sandstone		
7---						

8---					Soft / Steady 8.0'-9.0'	

9---						

10---		0.0		10.0' - 11.0'	Soft / Steady 10.0'-11.0'	
---				Dark brown weathered	Weathered	
11---				sandstone (fracture)		
---				11.0' - 14.5'	Hard / Steady 11'-14.5'	
12---				Medium dark gray (N4) well		
---				sorted medium-fine grained		
13---				sandstone		

14---						

15---		0.0		14.5' - 17.0'	Soft / Choppy 14.5'-17.0'	
---				Dark gray (N3) well sorted	Weathered	
16---				medium-fine grained sandstone		
---				with interbedded dark brown		
17---				weathered sandstone		
---				(fractures)		
18---				17.0' - 21.0'	Hard 18.0'-21.0'	
---				Grayish green (SG 5/2) well		
19---				sorted fine grained sandstone		

		0.0		Log Approved By:		
				Martin Gilgallon, P.G.		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 23, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 23, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-2

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		13:20	14:00	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 5.0'	Mulch Surface	
1---				Pulverized sandstone fill material (shot rock)		
2---						
3---						
4---						
5---		31.1		5.0' - 7.0'	Wet at 5.0'	
6---				Dark brown sand and silt with sub-angular pebbles and cobbles		
7---				7.0' - 11.5'	Bedrock at 7.0'	
8---				Medium gray (N5), fine to medium grained sandstone (well sorted)	Hard / Steady 7.0'-11.5'	
9---						
10---		0.0				
11---						
12---				11.5' - 12.0'	Choppy / Fracture 11.5'-12.0'	
13---				Dark brown weathered sandstone		
14---				12.0' - 12.5'	Hard/Steady 12.0'-12.5'	
15---				Medium gray (N5), fine-medium grained sandstone		
16---				12.5' - 13.0'	Choppy / Fracture 12.5'-13.0'	
17---		0.0		Dark brown weathered sandstone		
18---				13.0' - 19.5'	Hard/Steady 13.0'-19.5'	
19---				Grayish green (SG 5/2) well sorted fine grained sandstone		
---				19.5' - 21.0'		
---				Dark brown weathered sandstone		
---				Log Approved By:	Choppy / Fracture 19.5'-21.0'	
---		0.0		Martin Gilgallon, P.G.		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 23, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 23, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-3

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		7:55	9:15	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 6.0'	Asphalt Surface	
1---				Pulverized rocky fill material (shot rock)		
2---						
3---						
4---						
5---		0.0			Wet at 5.0'	
6---		29.4	Odors at 6.0'	6.0' - 10.0'		
7---				Dark brown sand and silt with angular and sub-angular pebbles and cobbles		
8---						
9---						
10---		25.6		10.0' - 21.0'	Rock at 10.0' Hard / Steady 10.0'-21.0'	
11---				Medium dark gray (N4) well sorted, fine grained sandstone		
12---						
13---						
14---						
15---		0.0			Note: Well collapsed at 7.0'. Installed 15.0' temporary casing. Well constructed as casing was removed.	
16---						
17---						
18---						
19---						
---		0.0				

Log Approved By:
Martin Gilgallon, P.G.

LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 22, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 22, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-4

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		11:45	12:20	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 2.0'	Mulch Surface	
1---				Modified fill materials		

2---		31.3	Odors at 2.0'	2.0' - 9.5'		
---				Medium brown and dark brown		
3---				sand and silt with abundant		
---				sub-angular pebbles and		
4---				cobbles		

5---		56.8			Wet at 5.0'	

6---						

7---						

8---						

9---				9.5' - 15.5'	Bedrock at 9.5'	
---				Medium dark gray (N4) well	Hard / Steady 9.5'-21.0'	
10---		0.0		sorted, fine grained sandstone		

11---						

12---						

13---						

14---						

15---		0.0			Note: Hole collapsed at	
---					~15.0'. Well set at	
16---				15.5' - 21.0'	15.35' below grade	
---				Grayish green (SG 5/2) well		
17---				sorted, fine-medium grained		
---				sandstone		
18---						

19---						

		0.0			Log Approved By: Martin Gilgallon, P.G.	



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 24, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 24, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-5

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		7:45	9:30	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 8.0'	Asphalt Surface	
1---				Dark brown sand and silt with abundant sub-angular pebbles and cobbles		
2---		85.0	Odors at 2.0'			
3---						
4---					Wet at 4.0'	
5---		116.0				
6---						
7---						
8---				8.0' - 18.0'	Bedrock at 8.0'	
9---				Medium dark gray (N4) well sorted, fine grained sandstone	Hard / Steady 8.0'-18.0'	
10---		20.7				
11---						
12---						
13---					Note: Hole collapsed at 6.0'. Installed 21' temporary casing, well constructed as casing was pulled)	
14---						
15---		0.0				
16---						
17---						
18---				18.0' - 21.0'	Choppy / Fracture	
19---				Broken weathered sandstone	18.0'-20.0'	
---				Log Approved By:	Hard / Steady	
				Martin Gilgallon, P.G.	20.0'-21.0'	
		0.0				



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 19, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 19, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-6

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		9:45	10:15	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 3.0'	Asphalt Surface	
1---				Dark brown and medium brown sand and silt with sub-rounded pebbles and cobbles		
2---						
3---				3.0' - 5.5'	Top of Rock at 3.0'	
4---				Medium dark gray (N4) well sorted, fine-medium grained sandstone, change to dark brown weathered sandstone (fracture) at 5.5'	Rod Change at 3.0'	
5---		0.0			Hard / Steady 3.0'-5.0'	
6---				5.5' - 10.5'	Very Hard / Steady 5.0'-5.5'	
7---		15.3	Slight Odor at 7.0'	Medium dark gray (N4) well sorted, fine-medium grained sandstone	Choppy / Weathered at 5.5'	
8---					Very Hard / Steady 5.5' - 8.0'	
9---					Choppy / Softer 8.0'-9.0'	
10---		0.0			Hard / Steady 9.0'-10.5'	
11---				10.5' - 11.5'	Choppy / Softer / Weathered 10.5'-11.5'	
12---				Dark brown weathered sandstone (fractured)		
13---				11.5' - 15.5'	Choppy / Weathered 11.5'-16.0'	
14---				Medium dark gray (N4) well sorted, fine-medium grained sandstone		
15---		0.0		15.5' - 16.0'	Hard / Steady 16.0'-20.0'	
16---				Dark brown weathered sandstone (fractured)		
17---				16.0' - 20.0'		
18---				Medium dark gray (N4) well sorted, fine-medium grained sandstone	Choppy / Weathered 20.0'-20.5'	
19---				20.0' - 20.5'		
---				Dark brown weathered sandstone (fractured)		
---				20.5' - 21.0'	Hard / Steady 20.5'-21.0'	
---		0.0		Medium gray (N4) well sorted, fine-medium grained sandstone		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: Soft Dig: 02.06.17 / Drilling: 02.09.17

Client: Pump-n-Pantry, Inc.

Date Finished: Soft Dig: 02.06.17 / Drilling: 02.09.17

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-7

Driller: Jeff Zelko

Job Number: 25112

Inspectors: Chris Herman (Soft) / Kevin Cucura (Drilling)

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig		11:50	12:15	3.0'	Elevation TOC	Surface
Drilling		9:30	11:13	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log		Lithologic Description	Notes
---			Moist 0.0' - 3.0'		0.0' - 3.0'	Gravel Surface
1---		0.0			Dark brown sand and silt with	Soft Dig 0.0' - 3.0'
---					sub-angular pebbles and	
2---		0.0			trace amounts of wood chips	Auger 10" Diameter
---					and slag; sandstone at 3.0'	Borehole 3.0' - 10.0'
3---		0.0	Wet 3.0' - 10.0'		3.0' - 10.0'	Drill 6" diameter air-
---					Weathered gray sandstone	rotary 10.0' - 21.0'
4---		0.0				

5---		0.0				

6---		0.0				

7---		0.0				

8---		0.0				

9---		0.0				

10---		0.0			10.0' - 21.0'	Competent bedrock
---					Gray to medium gray, fine to	
11---					medium grained sandstone	

12---						

13---						Sample Log:
---						Sample ID #:
14---						112-0206-MW7A
---						Sample Depth:
15---						2.0' - 3.0'
---						Sample Time: 1232
16---			Wet @ rod change			

17---						

18---						

19---			Fracture @ 20.0'		Log Approved By:	
---					Martin Gilgallon, P.G.	



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: Soft Dig: 02.06.17 / Drilling: 02.08.17

Client: Pump-n-Pantry, Inc.

Date Finished: Soft Dig: 02.06.17 / Drilling: 02.08.17

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-8

Driller: Jeff Zelko

Job Number: 25112

Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig Drilling		9:15 10:54	10:43 12:41	5.0' 20.5'	Elevation TOC	Surface
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---			Moist 0.0' - 4.0'	0.0' - 3.0'	Asphalt Surface	
1---		0.0		Medium brown sand and silt with rounded pebbles to 1.5',	Soft Dig 0.0' - 5.0'	
2---		0.0		change to dark gray sand and silt with abundant and	Auger 10" Diameter Borehole 5.0' - 15.5'	
3---		0.0		sub-angular pebbles / cobbles		
4---		3.0	Wet 4.0' - 15.5'	3.0' - 5.0'	Drill 6" diameter air-rotary 15.5' - 20.5'	
5---		9.0		Dark gray sand and silt with abundant angular and		
6---		13.0		sub-angular pebbles and cobbles		
7---				5.0' - 6.0'		
8---				Boulder		
9---				6.0' - 8.0'		
10---				Brown silt and clay with some pebbles		
11---				8.0' - 15.5'		
12---				Weathered gray sandstone		
13---					Sample Log:	
14---					Sample ID #:	
15---					112-0206-MW8A	
16---					Sample Depth:	
17---					2.0' - 3.0'	
18---					Sample Time: 0953	
19---						
---					Sample ID #:	
					112-0206-MW8B	
					Sample Depth:	
					4.0' - 4.5'	
			Wet @ rod change	15.5' - 20.5'	Sample Time: 1023	
				Gray to medium gray, medium grained sandstone with few shale interbeds		
				Log Approved By:		
				Martin Gilgallon, P.G.		





LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property				Date Started: Soft Dig: 02.06.17 / Drilling: 02.08.17		
Client: Pump-n-Pantry, Inc.				Date Finished: Soft Dig: 02.06.17 / Drilling: 02.08.17		
Purpose: Site Characterization Activities						
Contractor: Odyssey Environmental				Boring Number: MW-9		
Driller: Jeff Zelko				Job Number: 25112		
Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)				Sheet: 1 of 1		
TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig		11:18	11:54	5.0'	Elevation TOC	Surface
Drilling		15:10	16:30	20.5'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---			Moist 0.0' - 4.0'	0.0' - 4.0'	Asphalt Surface	
1---		0.0		Medium-light brown sand and silt with abundant sub-angular and sub-rounded pebbles to 1.5', change to gray sand and silt with sub-angular pebbles and cobbles	Soft Dig 0.0' - 5.0'	
2---		0.0			Auger 10" Diameter Borehole 5.0' - 15.0'	
3---		0.0			Drill 6" diameter air-rotary 15.0' - 20.5'	
4---		0.0	Wet 4.0' - 15.0'	4.0' - 5.0'		
5---		0.0		Light brown sand, silt and clay with some angular and sub-angular cobbles		
6---		0.0		5.0' - 6.0'		
7---		0.0		Dark brown silt and clay with some sand and sub-angular pebbles		
8---		0.0		6.0' - 10.0'		
9---		0.0		Weathered gray bedrock		
10---		0.0				
11---		0.0			Sample Log:	
12---		0.0			Sample ID #:	
13---		0.0			112-0206-MW9A	
14---		0.0			Sample Depth:	
15---		0.0			2.0' - 3.0'	
16---		0.0			Sample Time: 1134	
17---		0.0			Sample ID #:	
18---		0.0			112-0206-MW9B	
19---		0.0			Sample Depth:	
---			Hard / steady	14.0' - 15.0'	4.0' - 5.0'	
---				Medium gray sandstone	Sample Time: 1147	
---			Wet @ rod change			
---			Soft ~ 17.0'			

---			Hard / steady			
---				Log Approved By:		
---				Martin Gilgallon, P.G.		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: Soft Dig: 02.06.17 / Drilling: 02.09.17

Client: Pump-n-Pantry, Inc.

Date Finished: Soft Dig: 02.06.17 / Drilling: 02.09.17

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-10

Driller: Jeff Zelko

Job Number: 25112

Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
Soft Dig		13:02	13:30	5.0'		
Drilling		13:30	15:38	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---			Moist 0.0' - 4.0'	0.0' - 5.0'	Asphalt Surface	
1---		0.0		Dark brown sand and silt with abundant sub-angular and angular pebbles and cobbles	Soft Dig 0.0' - 5.0'	
2---		0.0			Auger 10" Diameter Borehole 5.0' - 14.0'	
3---		0.0			Drill 6" diameter air-rotary 14.0' - 21.0'	
4---		0.0	Wet 4.0' - 14.0'			
5---		0.0		5.0' - 8.0'		
6---		0.0		Dark brown sand and silt with some clay and sub-angular pebbles and cobbles		
7---		0.0				
8---		0.0		8.0' - 14.0'		
9---		0.0		Weathered gray sandstone with some shale		
10---		0.0				
11---		0.0			Sample Log:	
12---		0.0			Sample ID #:	
13---		0.0			112-0206-MW10A	
14---		0.0			Sample Depth:	
15---		0.0			2.0' - 3.0'	
16---		0.0			Sample Time: 1310	
17---		0.0				
18---		0.0	Hard / steady	14.0' - 16.0'	Sample ID #:	
19---				Medium-grained sandstone with shale interbeds near 17.0' to 17.5'	112-0206-MW10B	
20---					Sample Depth:	
21---					4.0' - 5.0'	
22---					Sample Time: 1326	
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LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: April 19, 2017

Client: Pump-n-Pantry, Inc.

Date Finished: April 19, 2017

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-11

Driller: Jeff Zelko

Job Number: 25112

Inspectors: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:30	13:30	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 4.0'	Asphalt Surface	
1---		0.0	Moist to 4.0'	Soft dig to 4.0'; dark brown		
---			No Odor	and gray sand and silt with		
2---		0.0	No Visual	some clay; bedrock at 4.0'		

3---		0.0				

4---		2.0	Hard / Steady	4.0' - 11.0'		
---				Gray sandstone		
5---		0.0				

6---		0.0				

7---			Rod Change 7.0'			
---			Dry			
8---						

9---		0.0				

10---						

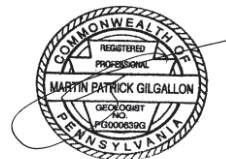
11---			Soft / Steady	11.0' - 14.0'		
---				Red siltstone		
12---		0.0	Rod Change 12.0'			
---			Dry			
13---						

14---			Hard / Steady	14.0' - 15.0'		
---				Gray sandstone		
15---		0.0	Soft / Choppy	15.0' - 17.0'		
---				Weathered sandstone		
16---						

17---			Rod Change 17.0'	17.0' - 21.0'		
---			Water Observed	Gray sandstone		
18---			Hard / Steady			

19---						

		0.0		Log Approved By: Martin Gilgallon, P.G.		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property				Soft Dig: Drilling		
Client: Pump-n-Pantry, Inc.				Date Started: 04/19/2017 4/20/2017		
Purpose: Site Characterization Activities				Date Finished: 04/19/2017 4/20/2017		
Contractor: Odyssey Environmental				Boring Number: MW-12		
Driller: Jeff Zelko				Job Number: 25112		
Inspector: Kevin Cucura				Sheet: 1 of 1		
TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		8:15	10:30	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log		Lithologic Description	Notes
---			Moist to 7.0' Wet Beyond		0.0' - 5.0' Soft dig to 5.0'; 1A modified stone with some sand and silt	Gravel Surface
1---						
2---		0.0				
3---						
4---		0.0				
5---			Slight Odors		5.0' - 17.0' Medium brown and dark brown sand and silt with abundant clay; bedrock at 17.0'	
6---		7.0				
7---						
8---						
9---		14.0				
10---						
11---						
12---		13.0				
13---						
14---						
15---						
16---		5.0				
17---					17.0' - 18.0' Gray sandstone	
18---			Hard / Steady		18.0' - 21.0' Gray sandstone	
19---					Log Approved By: Martin Gilgallon, P.G.	



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: April 19, 2017

Client: Pump-n-Pantry, Inc.

Date Finished: April 19, 2017

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-13

Driller: Jeff Zelko

Job Number: 25112

Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		13:30	15:30	20.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log		Lithologic Description	Notes
---			Moist to 3.5'		0.0' - 4.0'	Grass Surface
1---		0.0	Wet Beyond		Soft dig to 4.0'; medium brown	
---			No Odor		and dark brown silt and clay	
2---		0.0	No Visual		with sub-angular pebbles and	
---					cobbles	
3---		0.0				

4---		0.0			4.0' - 14.5'	
---					Medium brown silt and sand	
5---		0.0			with abundant clay and	
---					sub-angular pebbles and	
6---		0.0			cobbles; rock at 14.5'	

7---		0.0				

8---		0.0				

9---		0.0				

10---		0.0				

11---		0.0				

12---		0.0				

13---		0.0				

14---		0.0				
---			Hard / Steady		14.5' - 17.0'	
15---		0.0			Gray sandstone	

16---		0.0				

17---		0.0	Soft / Choppy		17.0' - 19.0'	
---					Brown weathered sandstone	
18---		0.0				

19---		0.0	Hard / Steady		19.0' - 20.0'	
---					Gray sandstone	
		0.0			Log Approved By:	
					Martin Gilgallon, P.G.	



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property				Soft Dig: Drilling		
Client: Pump-n-Pantry, Inc.				Date Started: 04/19/2017 4/20/2017		
Purpose: Site Characterization Activities				Date Finished: 04/19/2017 4/20/2017		
Contractor: Odyssey Environmental				Boring Number: MW-14		
Driller: Jeff Zelko				Job Number: 25112		
Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)				Sheet: 1 of 1		
TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		12:10	14:30	20.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 5.0'	Asphalt Surface	
1---		0.0	Dry / Moist to 4.0'	Soft dig to 5.0'; medium brown		
---			Wet Beyond	sand and silt with abundant		
2---		0.0	No Odor	sub-angular pebbles and		
---			No Visual	some clay		
3---						

4---		0.0				

5---		0.0		5.0' - 6.5'		
---				Medium brown sand and silt		
6---				with some sub-angular		
---				pebbles		
7---		0.0				

8---		0.0				

9---		0.0				

10---						

11---			Hard / Steady	Bedrock at 11.0'		
---				Gray sandstone and red		
12---				mudstone interbedded		

13---		0.0				

14---						

15---						

16---						

17---		0.0				

18---						

19---						

		0.0		Log Approved By: Martin Gilgallon, P.G.		



LaBella Associates, P.C.

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: September 13, 2017

Client: Pump-n-Pantry, Inc.

Date Finished: September 13, 2017

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-15

Driller: Fred Bahrenburg

Job Number: 2171845

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:15	11:30	20.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				Soft dig to 4.5' on 09/12/17	Asphalt Surface	
1---		0.0		Medium gray sand and silt	Auger 10" diameter	
---				with abundant sub-angular	borehole to 4.5'	
2---		0.0		pebbles, cobbles and some		
---				cinder blocks; weathered		
3---		0.0		bedrock at 4.5'		

4---		229	Gassy odor at 4.0'	4.5' - 6.0'	Damp to 4.5'	
---			Soft Choppy Drilling	Weathered gray sandstone	Wet at 4.5'	
5---			4.5' - 7.5'			

6---				6.0' - 16.8'	Drill 6" diameter	
---				Medium gray (N5), fine to	air-rotary borehole	
7---				medium grained sandstone	4.5' - 20.0'	
---			Soft Steady Drilling			
8---			7.5' - 8.5'			
---			Hard Steady Drilling			
9---			8.5' - 9.5'			
---			Very Hard Steady			
10---			Drilling 9.5' - 16.8'			

11---					Rod Change @ 11.0'	
---					Dry	
12---						

13---		85				

14---						

15---						

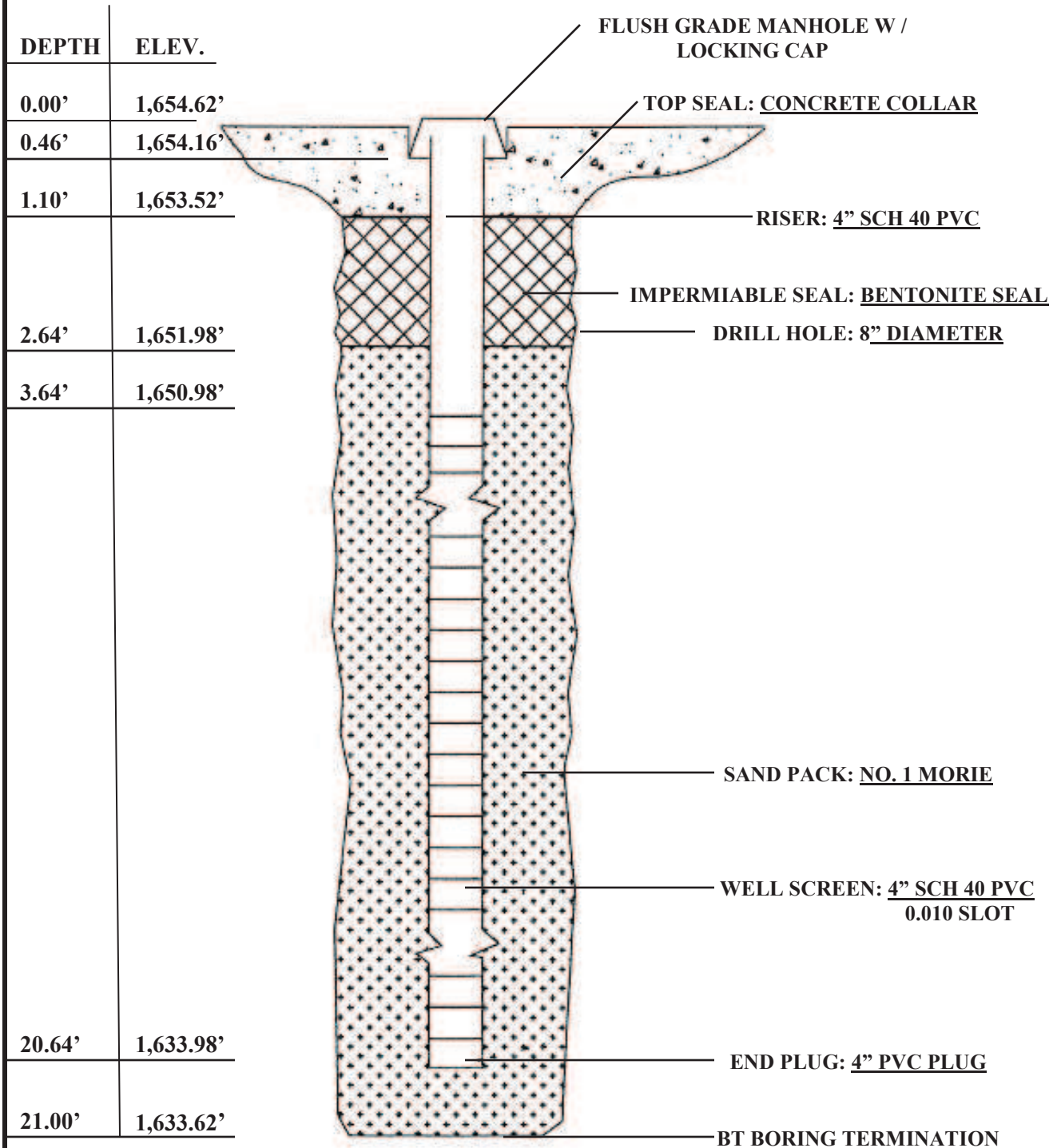
16---				16.8' - 20.0'	Rod Change @ 16.0'	
---				Interbedded medium gray to	Wet	
17---			Soft Steady Drilling	dark gray sandstone with soft		
---			16.8' - 17.0'	interbeds at 16.5' & 19.5'		
18---			Hard Steady Drilling			
---			17.0' - 19.5'			
19---			Soft Steady Drilling	Log Approved By:		
---			19.5' - 20.0'	Martin Gilgallon, P.G.		



ATTACHMENT C

Monitoring Well Construction Details

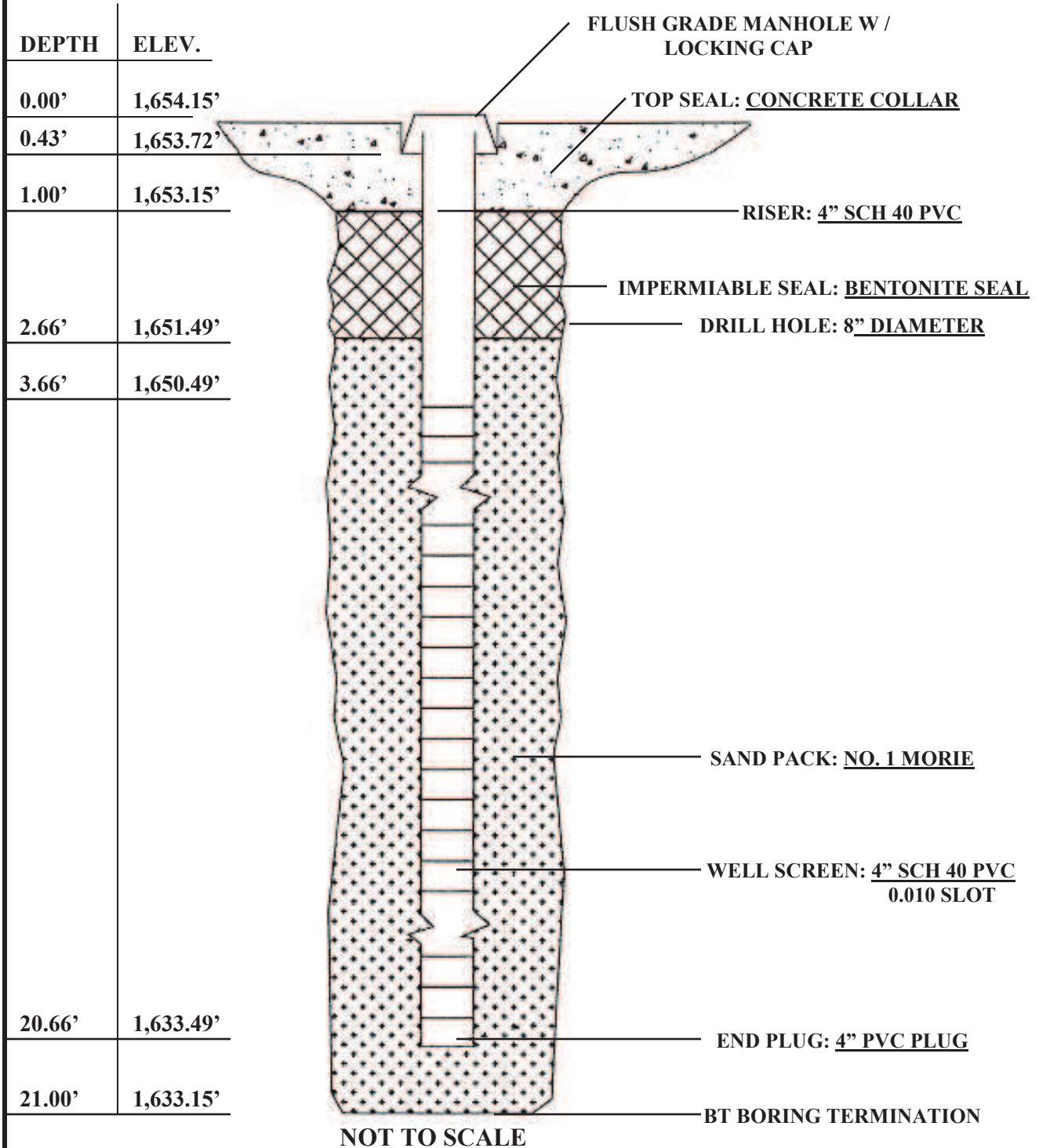
MONITORING WELL CONSTRUCTION DETAIL



NOT TO SCALE

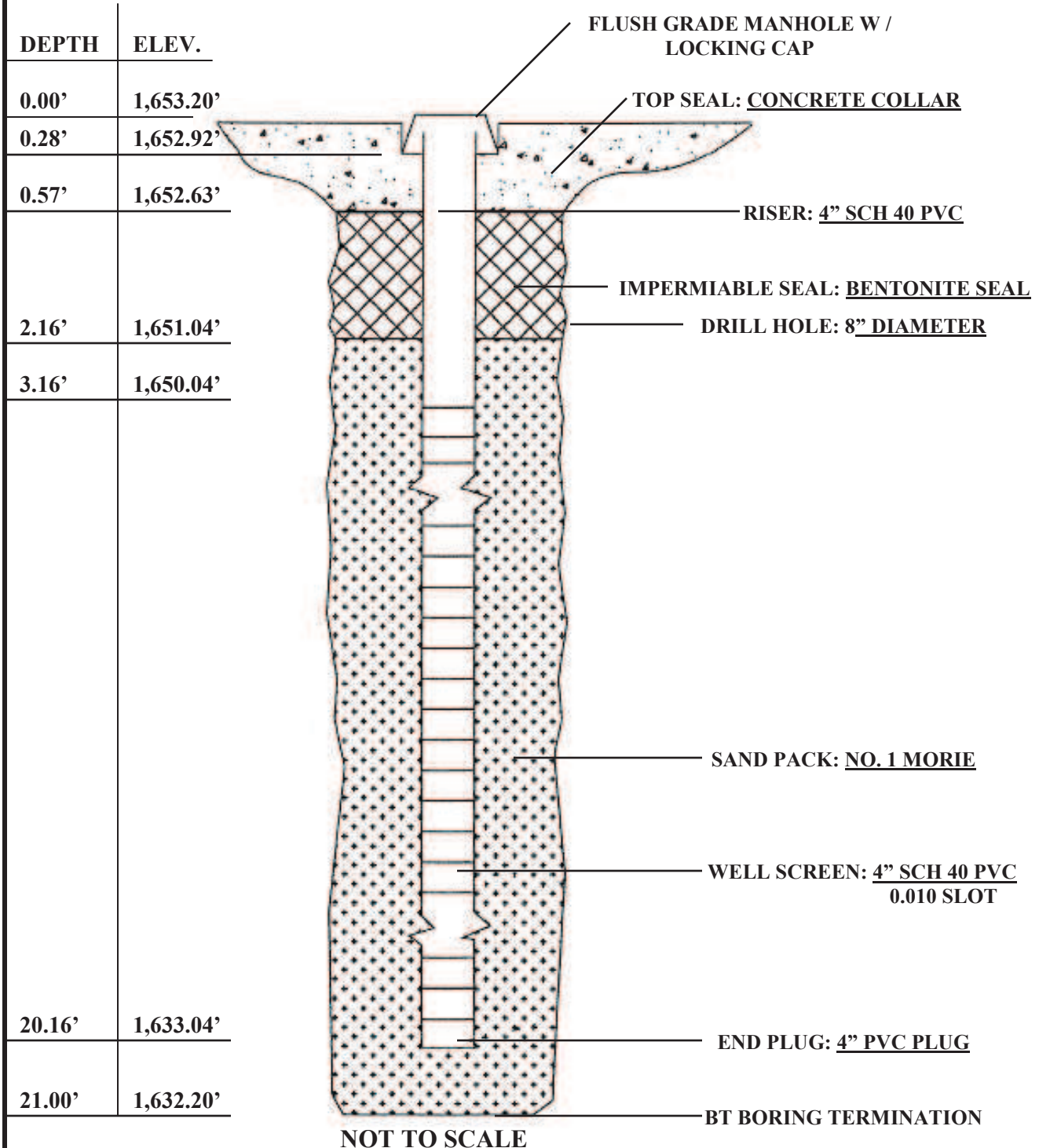
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 1

MONITORING WELL CONSTRUCTION DETAIL



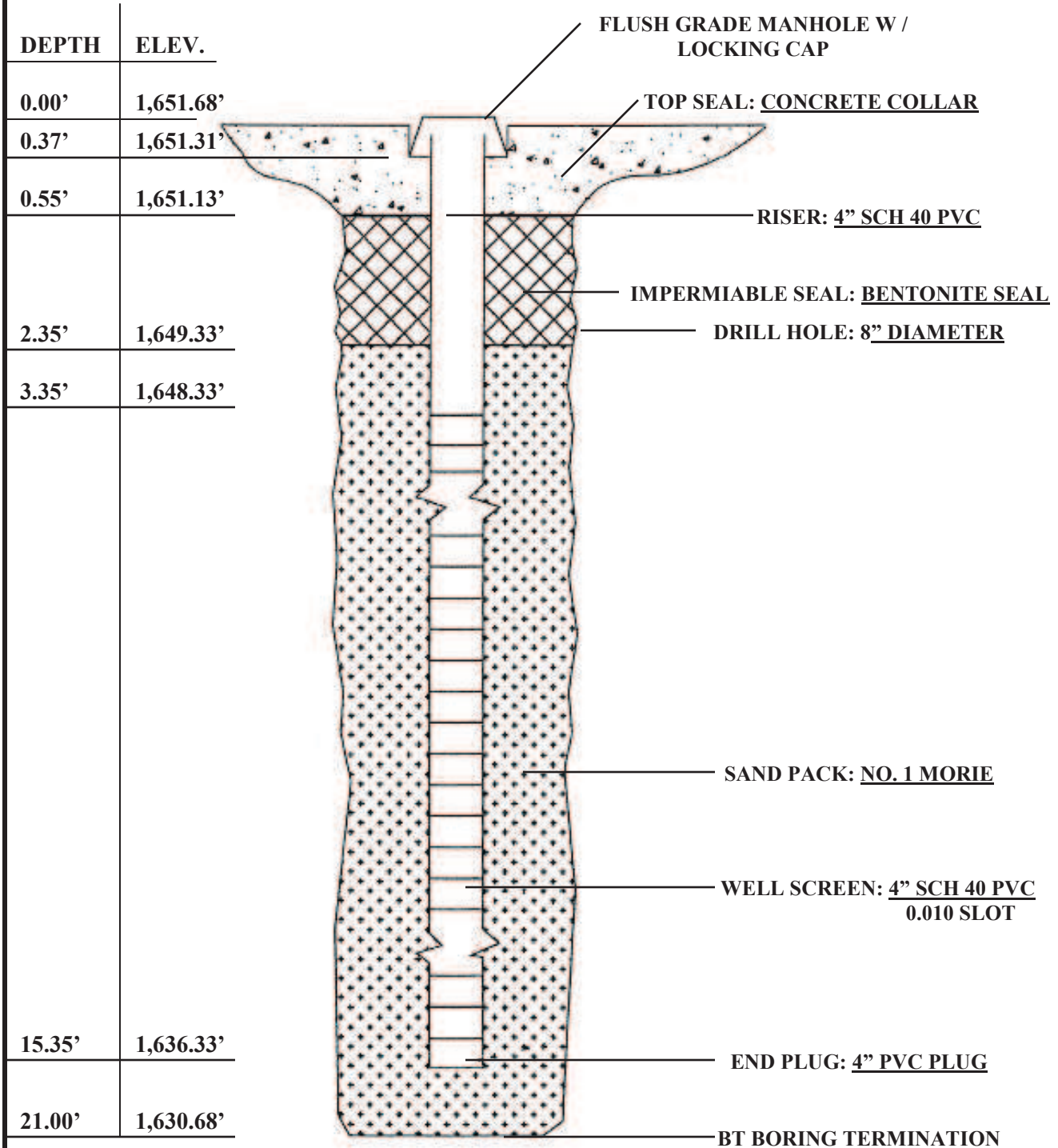
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 2

MONITORING WELL CONSTRUCTION DETAIL



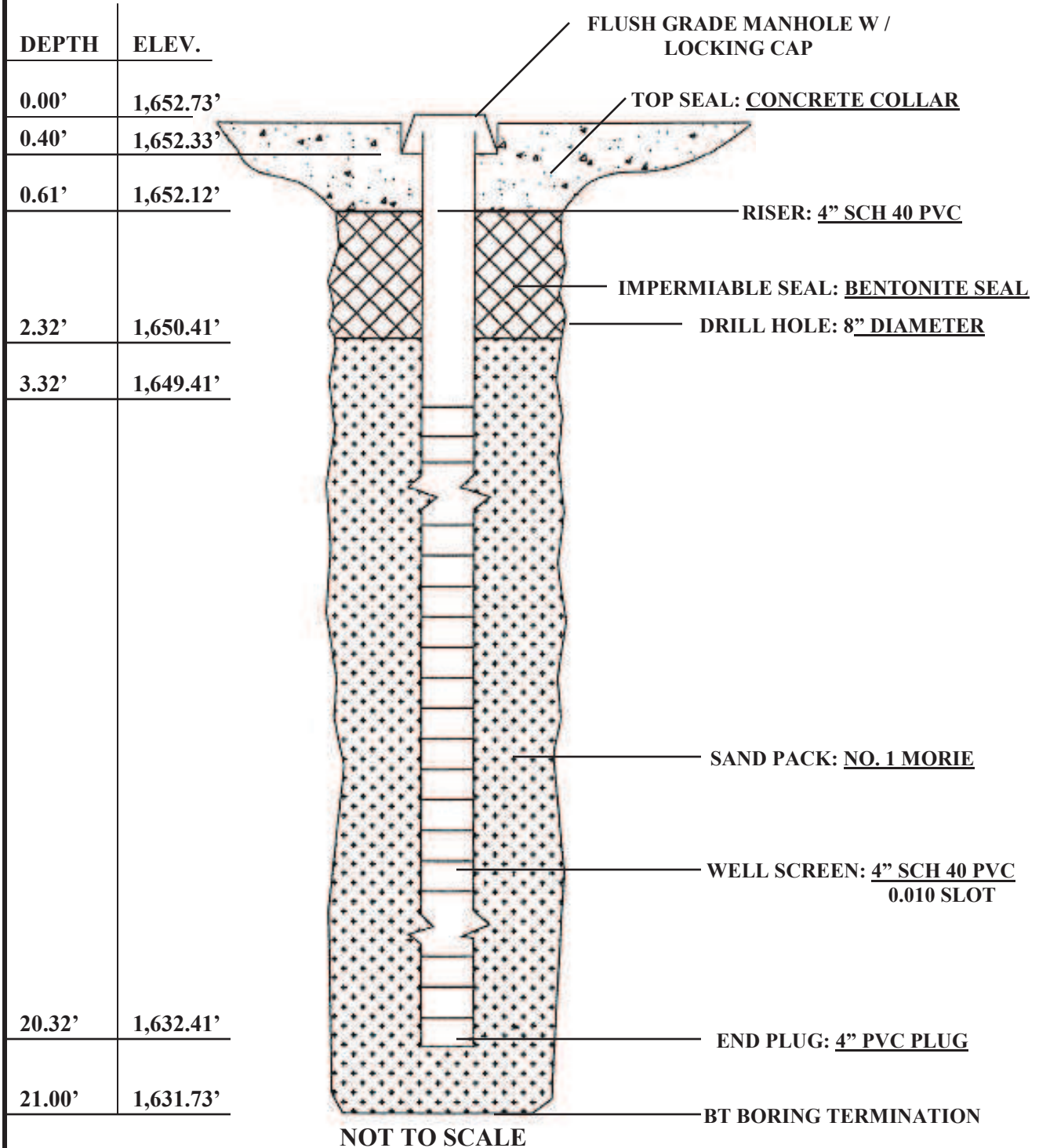
**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 3**

MONITORING WELL CONSTRUCTION DETAIL



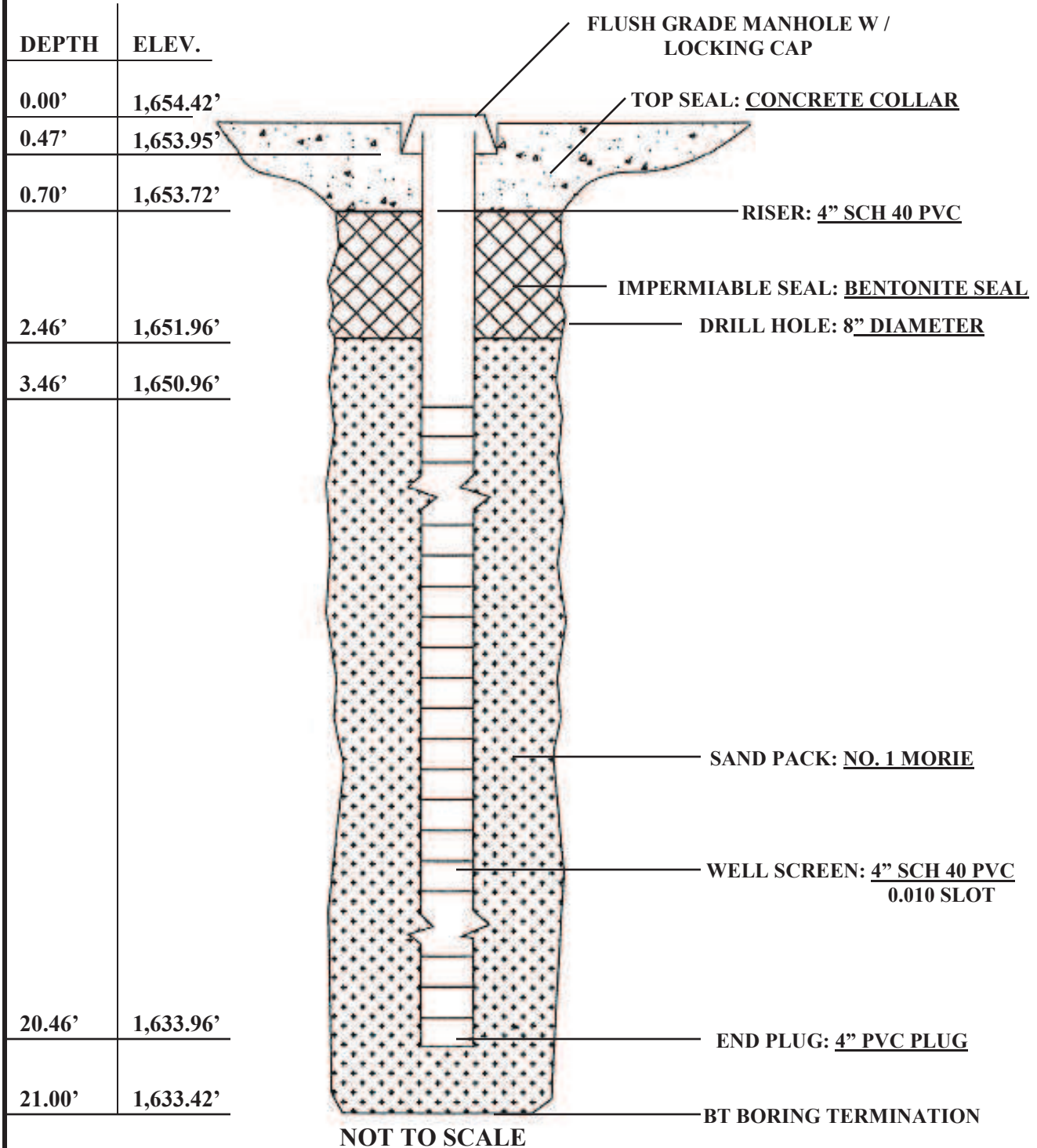
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PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 4**

MONITORING WELL CONSTRUCTION DETAIL



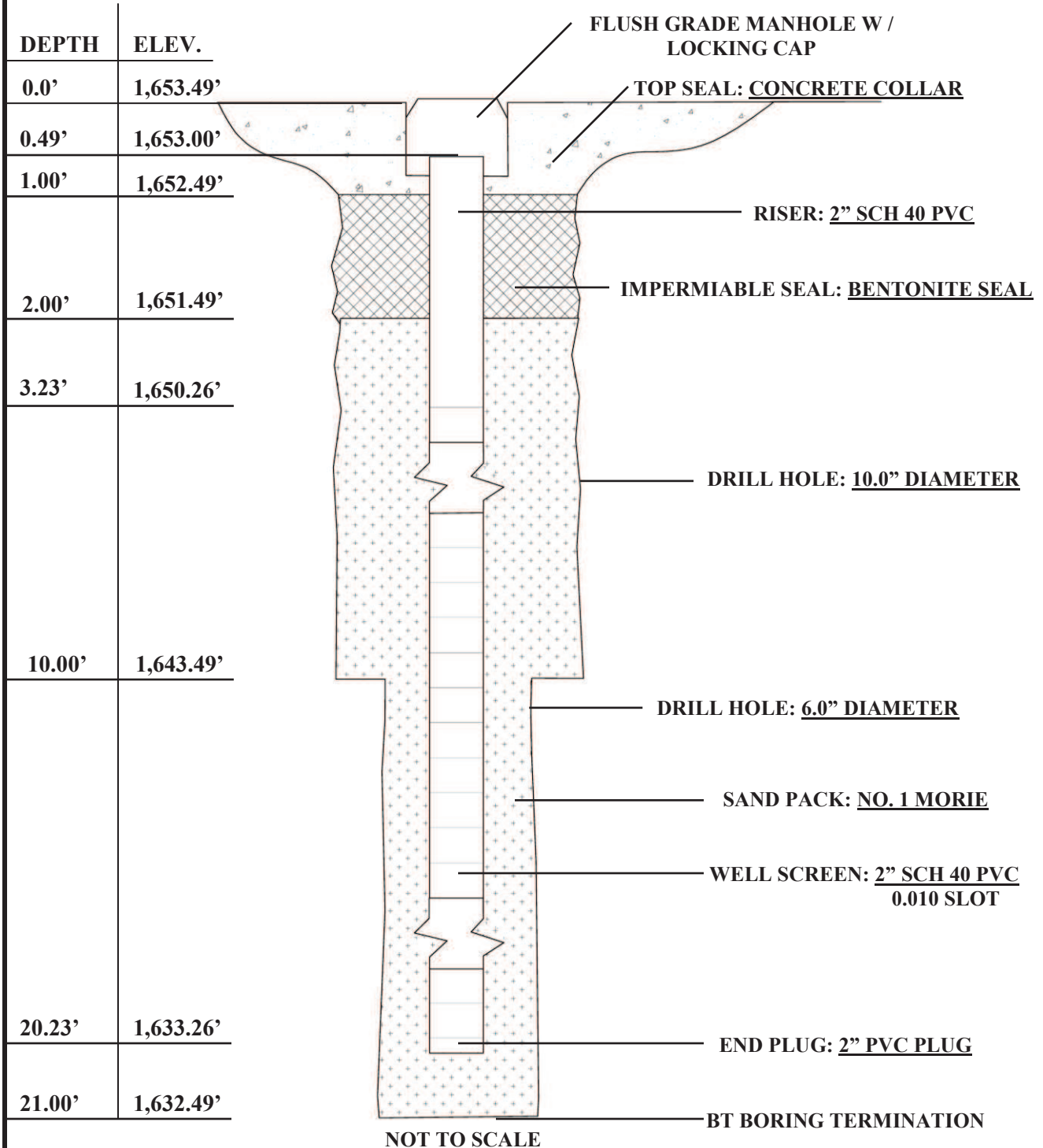
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 5

MONITORING WELL CONSTRUCTION DETAIL



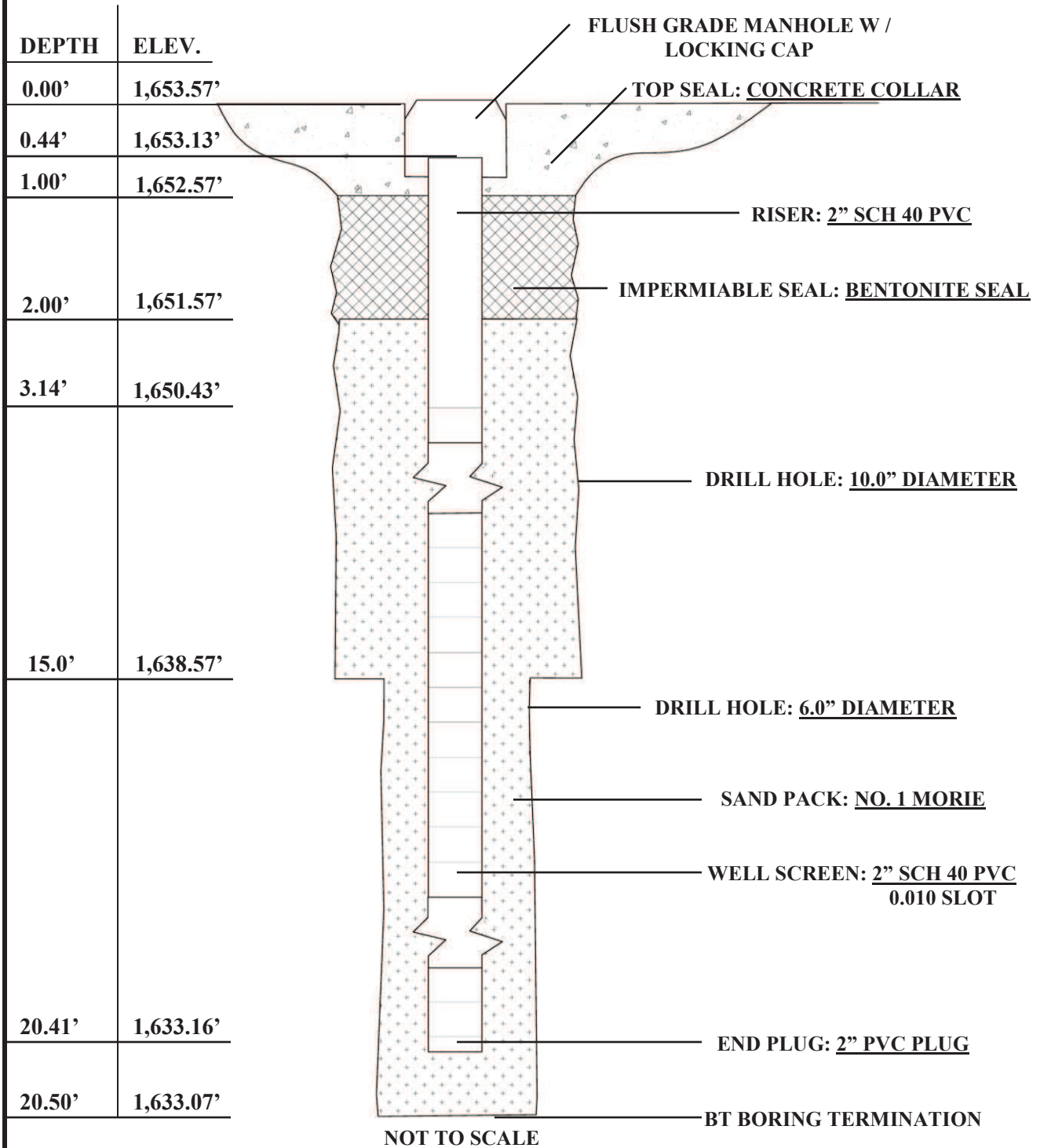
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 6

MONITORING WELL CONSTRUCTION DETAIL



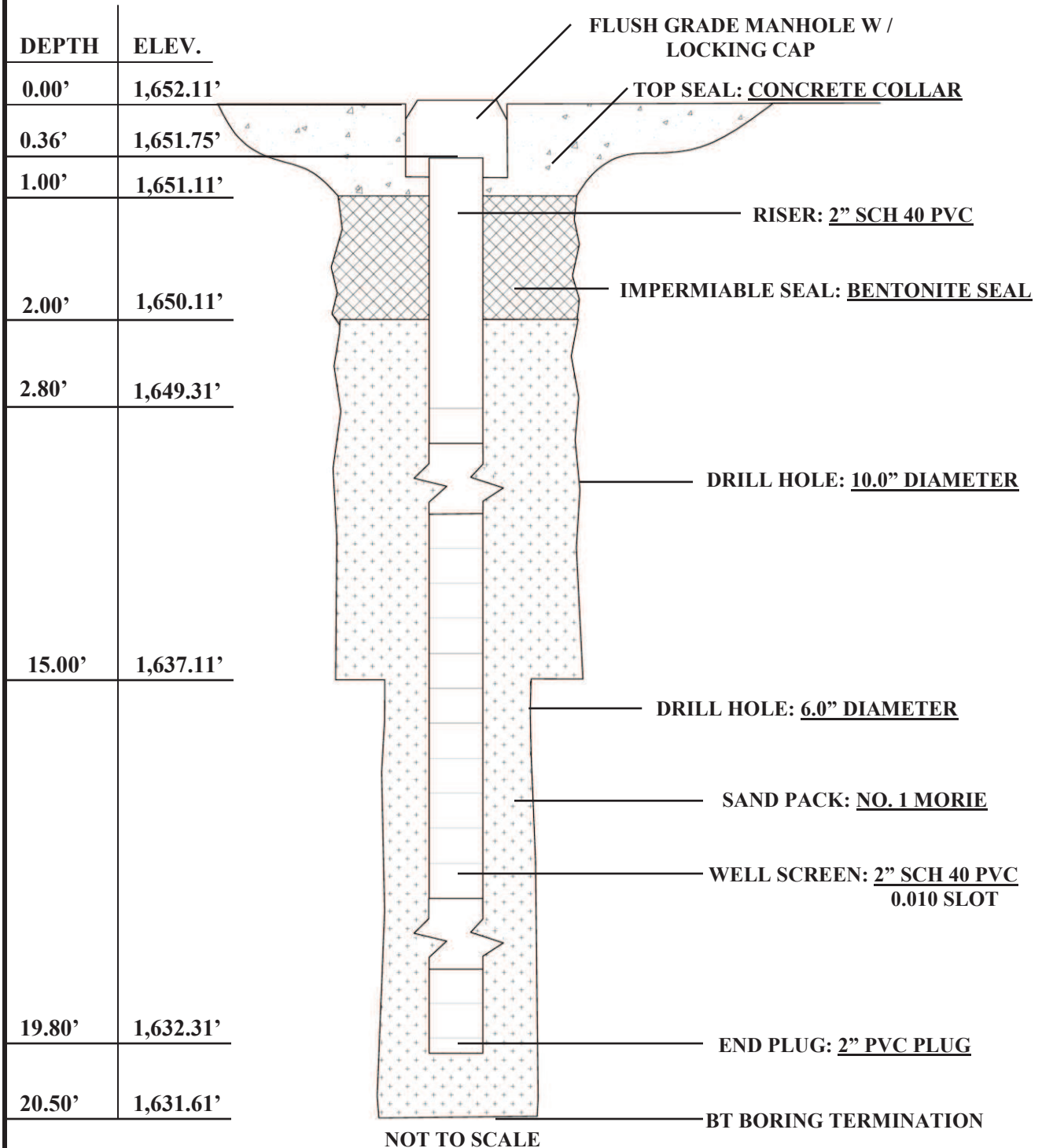
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PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 7**

MONITORING WELL CONSTRUCTION DETAIL



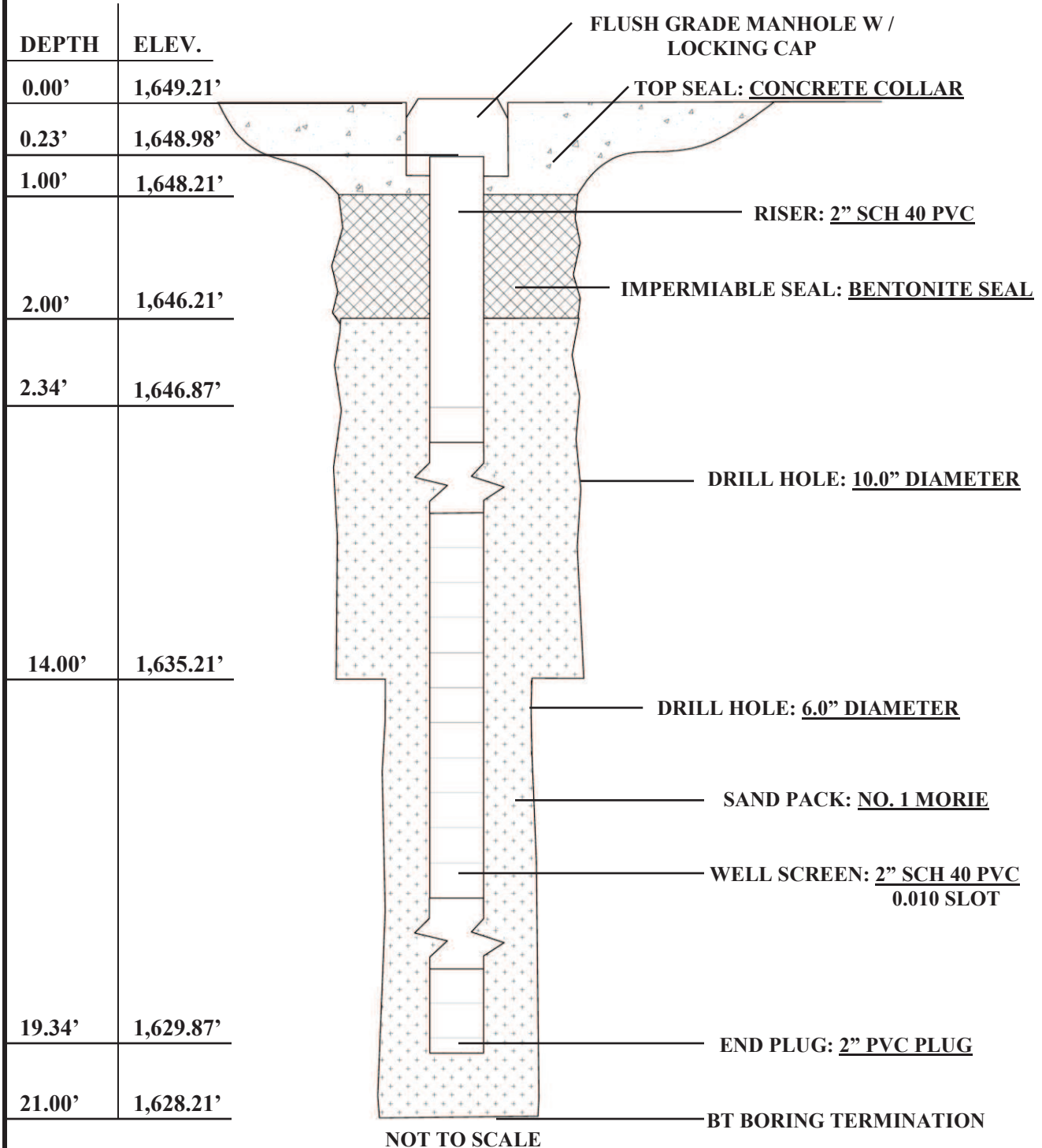
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 8

MONITORING WELL CONSTRUCTION DETAIL



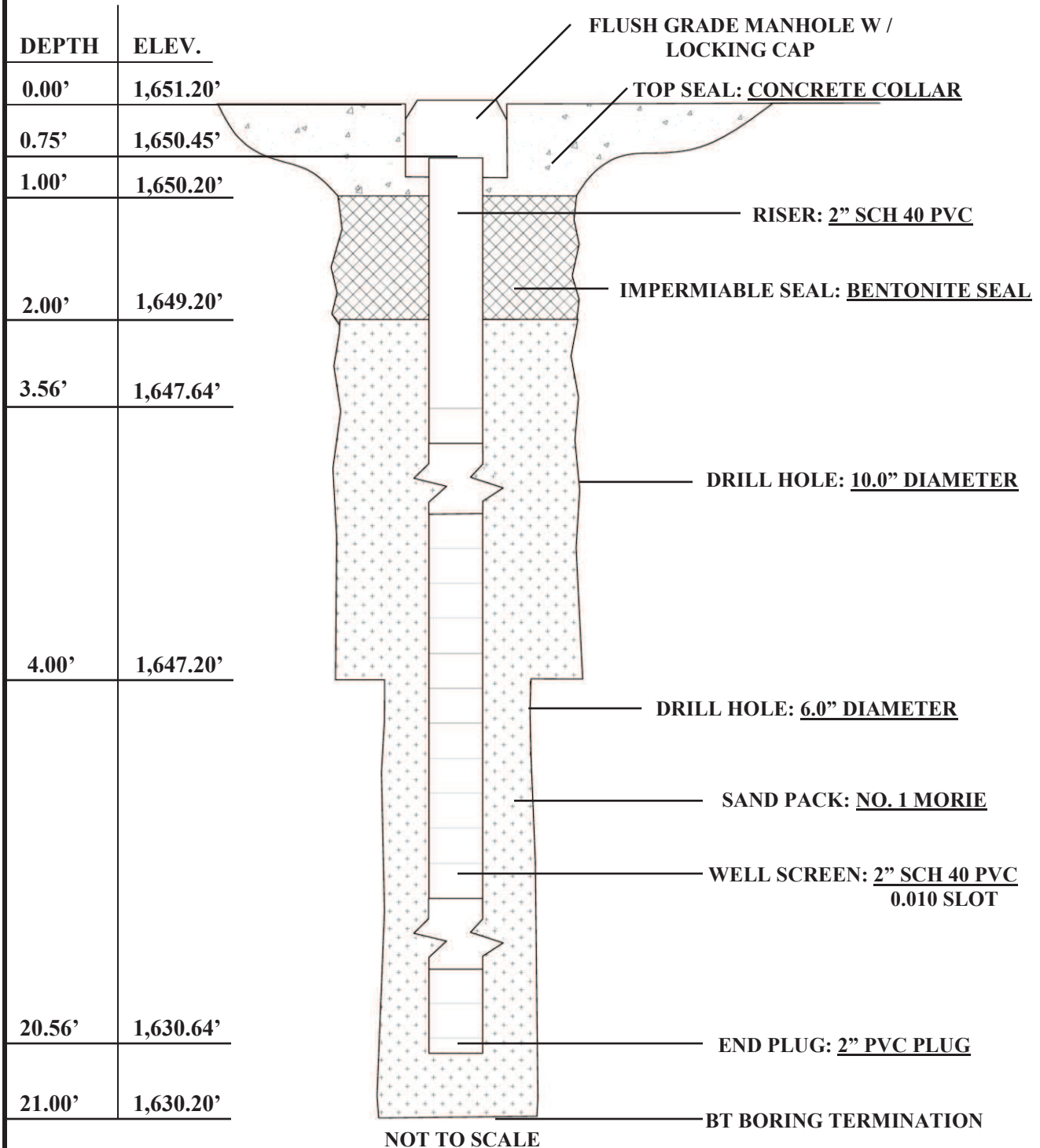
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 9

MONITORING WELL CONSTRUCTION DETAIL



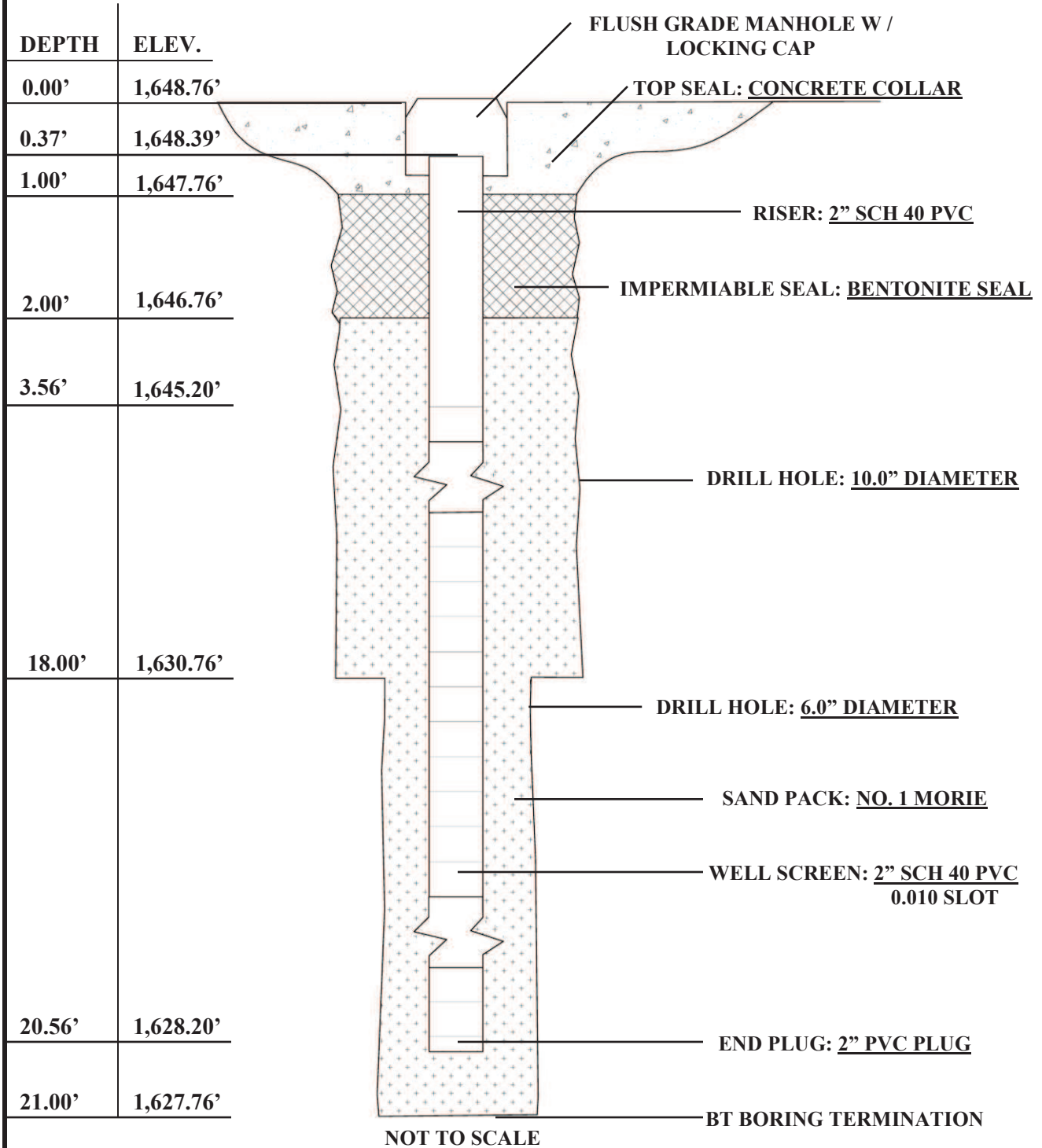
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PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 10**

MONITORING WELL CONSTRUCTION DETAIL



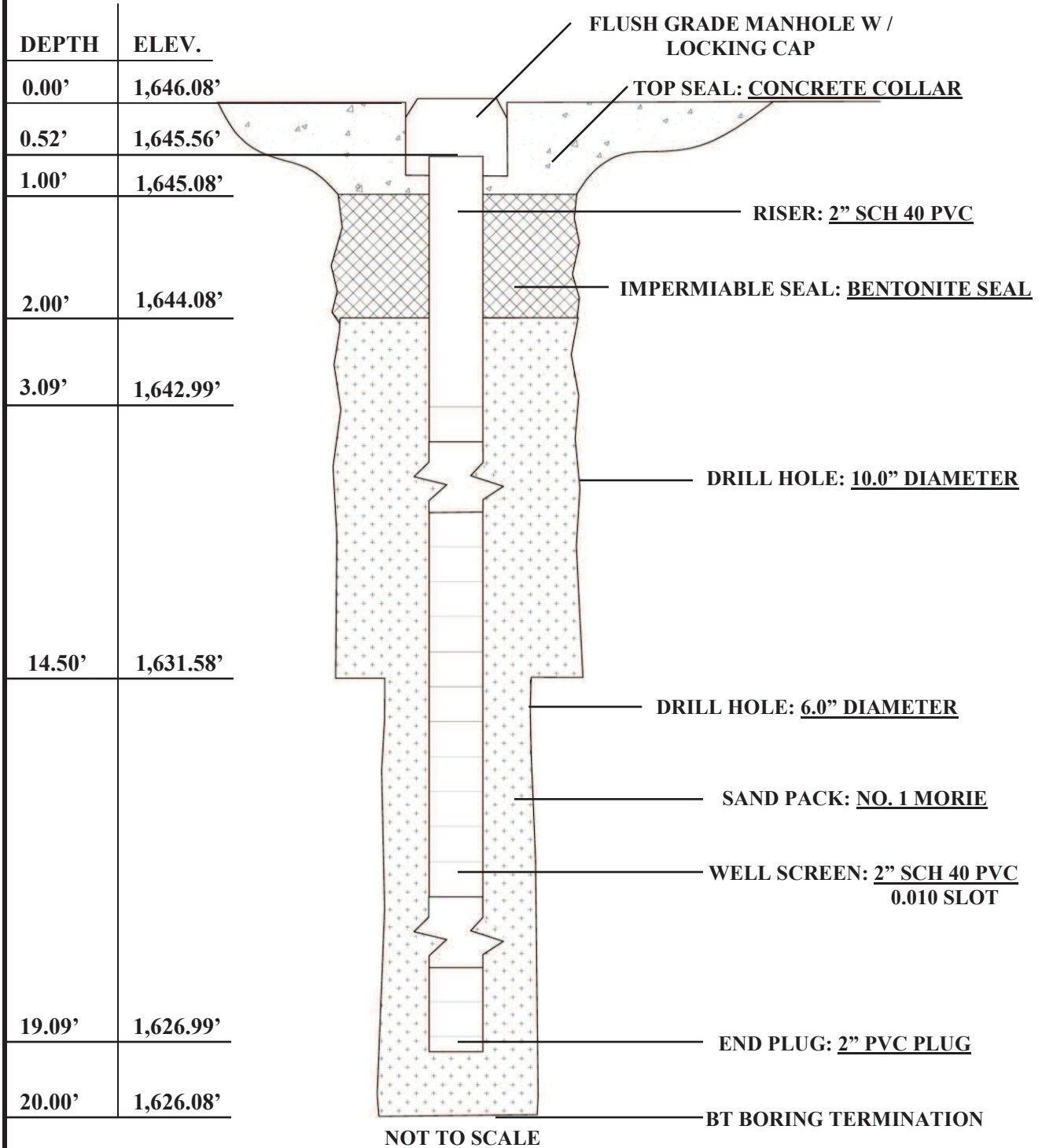
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PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 11**

MONITORING WELL CONSTRUCTION DETAIL



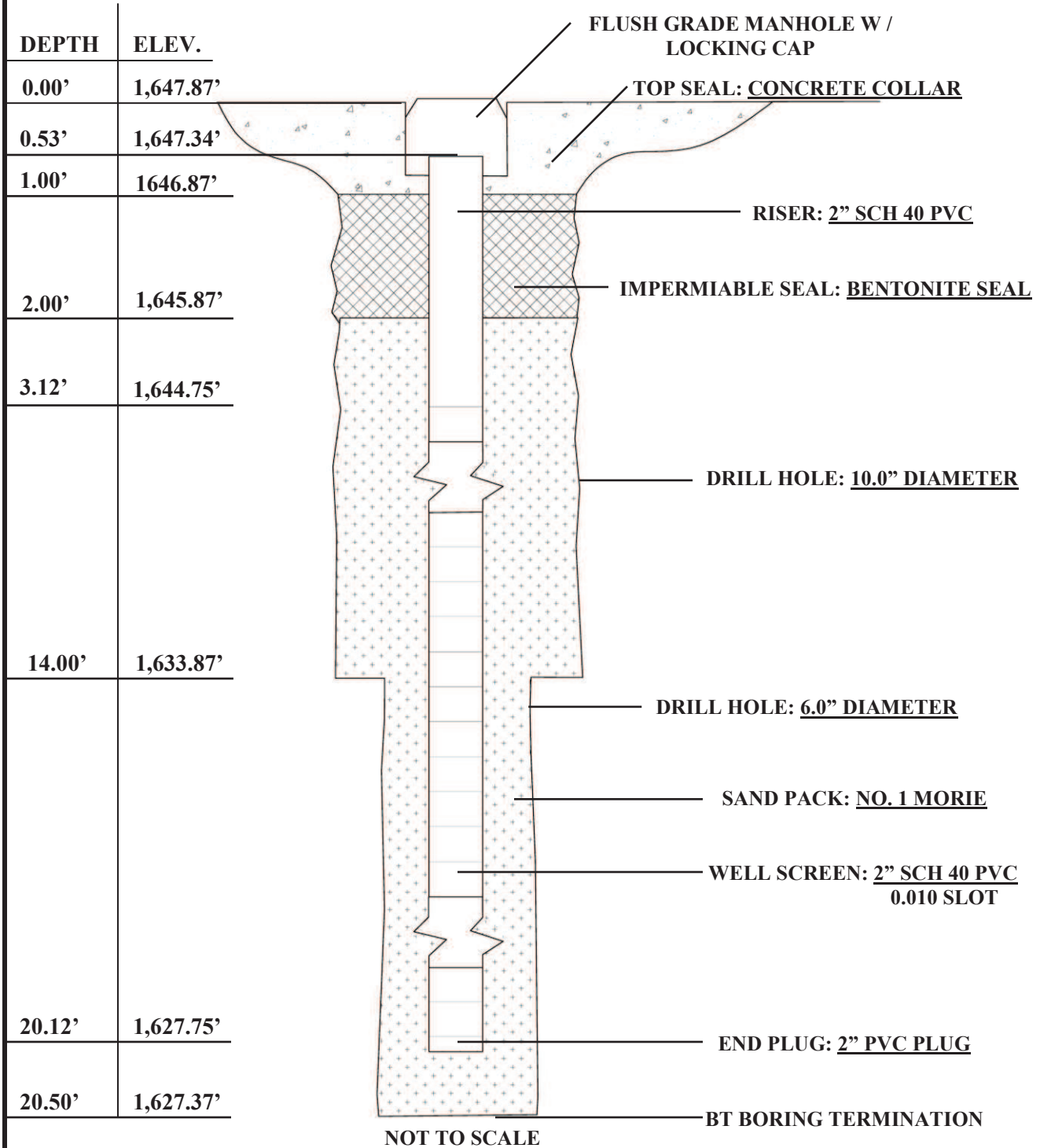
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 12

MONITORING WELL CONSTRUCTION DETAIL



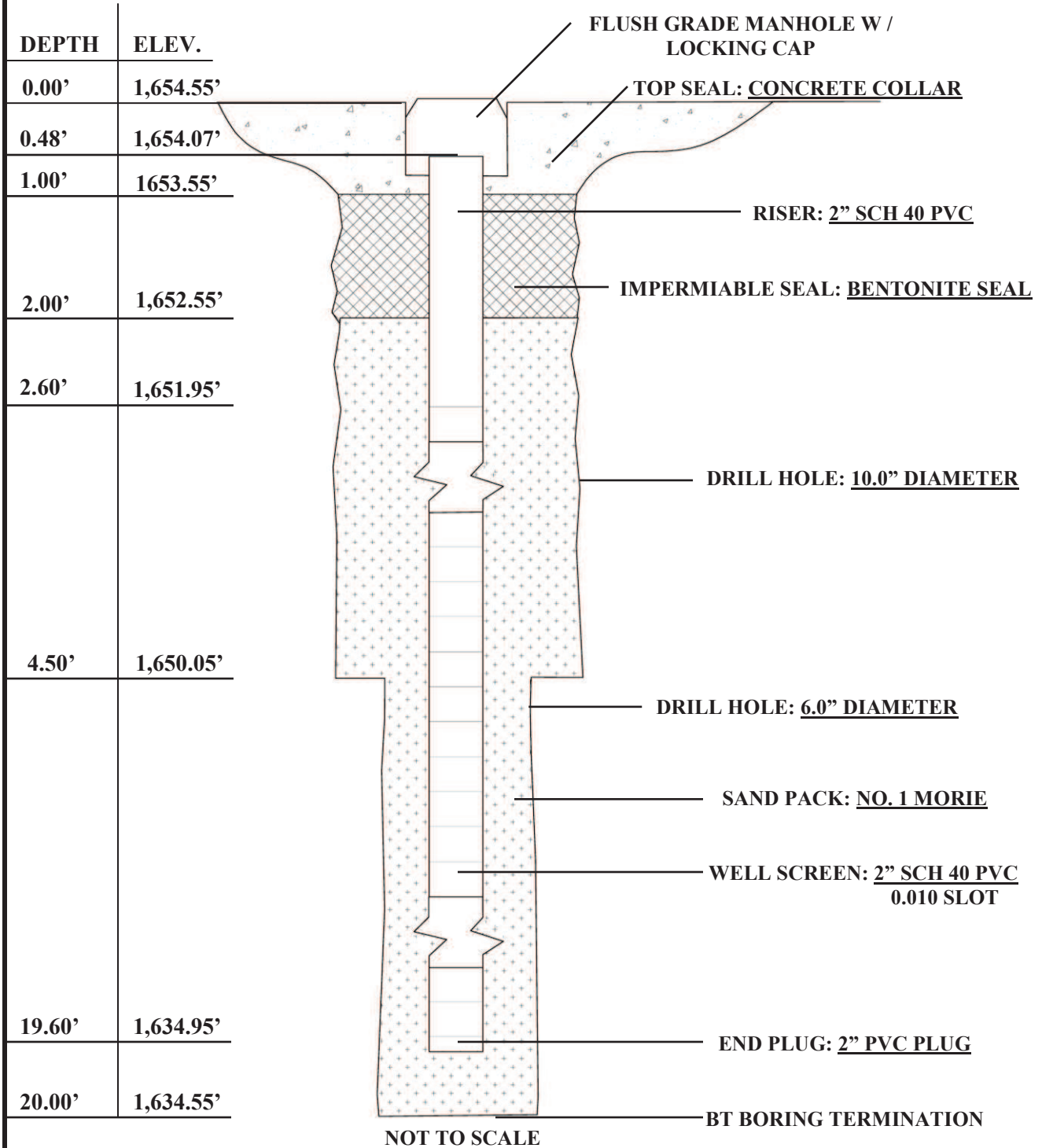
**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 13**

MONITORING WELL CONSTRUCTION DETAIL



**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 14**

MONITORING WELL CONSTRUCTION DETAIL



**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 15**

ATTACHMENT D

Field Notes

Field Notes

TO: File

FROM: Chris Herman

DATE: February 18 - 19, 2019

PROJECT: Pump-n-Pantry #001 / Site Characterization

PROJECT NUMBER: 2171845 / 2171846

SUBJECT: Groundwater Sampling Activities

0915: Arrived onsite and initiated site activities with the collection of static water levels from the fifteen (15) groundwater monitoring wells and four (4) observation wells located onsite. The purpose of the field activities was to collect groundwater samples from the fifteen (15) monitoring wells and four (4) observation wells for laboratory analysis. The general well information is as follows:

Table 1
General Well Information

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Rate (L/min.)	Purged (Gallons)
MW-1	2.74	20.18	11.3*	34.0**	18.0
MW-2	4.58	20.22	12.4	0.37	2.0
MW-3	4.39	19.88	9.7	0.50	3.0
MW-4	3.36	14.98	9.2	0.34	2.0
MW-5	4.28	19.92	12.2	0.43	3.0
MW-6	4.49	19.99	12.3	0.43	2.5
MW-7	--	19.74	--	--	--
MW-8	4.38	19.97	12.2	0.43	3.5
MW-9	4.35	19.44	11.9	0.30	2.0
MW-10	5.70	19.11	12.4	0.37	3.5
MW-11	3.56	19.81	11.7	0.32	2.0
MW-12	5.78	20.19	13.0	0.20	2.0
MW-13	2.91	18.57	10.7	0.48	3.0
MW-14	4.20	19.59	11.9	0.26	2.5
MW-15	3.90	19.12	11.5	0.50	2.0
OW-1	3.37	13.05	6.5*	13.5**	10.0
OW-2	3.30	12.25	5.8*	17.5**	15.0
OW-3	4.13	11.42	4.5*	13.5**	14.0
OW-4	4.30	11.11	4.4*	13.2**	14.0
RW-1	--	--	--	--	--

* = 1 volume, ** = 3 volumes in gallons

Note, RW-1 previously destroyed and is no longer included in the sampling activities.

MW-1: MW-1 was not suited for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing hand bailing methods. The well was evacuated prior to purging three (3) well volumes. No odorous or visual indications of contamination were observed. A total of 18.0 gallons was extracted from the well.

Table 2
Well Purging Data – MW-1

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1210	6.83	7.25	-133	74.7	0.00	0.25	Clear
1214	7.39	7.30	-105	54.6	0.00	5.0	Clear
1216	6.41	7.26	-83	47.1	0.00	10.0	Clear
1220	6.13	7.24	-78	49.9	0.00	15.0	Clear
1222	5.89	7.29	-74	51.3	0.00	18.0	Evacuated

MW-2: MW-2 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.4'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallon was extracted from the well. Strong odorous and visual indications of contamination were observed.

Table 3
Well Purging Data – MW-2

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1101	6.70	6.66	-137	14.8	1.0	1.29	4.70
1104	6.88	6.70	-138	15.0	0.3	1.44	4.70
1107	6.96	6.73	-135	15.0	77.6	1.75	4.70
1110	6.82	6.73	-132	15.0	99.7	1.48	4.70
1113	6.70	6.73	-130	15.0	136.8	1.22	4.70
1116	6.75	6.74	-129	15.0	144	0.48	4.70

MW-3: MW-3 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 9.7'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 4
Well Purging Data – MW-3

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1007	6.13	6.81	-123	5.40	6.1	0.00	4.44
1010	7.50	6.71	-111	4.50	6.9	0.00	4.44
1013	7.20	6.71	-112	4.45	5.1	0.00	4.44
1016	7.11	6.71	-112	4.44	3.3	0.00	4.44
1019	7.04	6.71	-117	3.94	81.8	0.00	4.44
1022	6.73	6.71	-118	3.76	126	0.00	4.44

MW-4: MW-4 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 9.2'. The well was purged and sampled at 340 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 5
Well Purging Data – MW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1126	4.70	6.79	-129	11.6	0.0	0.75	3.70
1129	4.81	6.81	-139	9.59	0.0	0.51	3.70
1132	5.16	6.84	-156	8.01	0.0	0.04	3.70
1135	5.16	6.86	-162	7.66	169	0.00	3.70
1138	5.41	6.84	-166	7.60	254	0.00	3.70
1141	5.25	6.86	-167	7.57	312	0.00	3.70

MW-5: MW-5 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.2'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 6
Well Purging Data – MW-5

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0927	6.35	7.04	-111	12.5	11.0	0.00	4.40
0930	6.69	6.90	-129	12.3	4.7	0.00	4.40
0933	6.74	6.86	-157	12.3	49.3	0.00	4.40
0936	6.82	6.86	-160	12.3	1.2	0.00	4.40
0939	6.86	6.86	-164	12.3	0.0	0.00	4.40
0942	6.89	6.86	-166	12.2	0.0	0.00	4.40

MW-6: MW-6 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.3'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 7
Well Purging Data – MW-6

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0854	6.44	8.24	137	13.9	41.5	0.00	5.00
0857	5.98	8.23	141	14.0	40.8	0.00	5.00
0900	5.91	8.23	145	14.0	40.4	0.00	5.00
0903	5.62	8.23	160	14.0	25.6	0.00	5.00
0906	5.48	8.20	175	14.1	20.7	0.00	5.00
0909	5.20	8.23	187	14.1	16.0	0.00	5.00

MW-7: MW-7 was not accessible at the time of the February 2019 groundwater sampling event.

MW-8: MW-8 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.2'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge during the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-8

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1325	7.80	6.29	126	0.908	322	0.00	4.49
1328	8.12	6.29	126	0.893	649	0.00	4.49
1331	9.63	6.31	119	0.808	54.9	0.00	4.49
1334	10.21	6.31	121	0.766	41.4	0.00	4.49
1337	10.44	6.31	123	0.723	94.4	0.00	4.49
1340	10.46	6.31	127	0.707	26.2	0.00	4.49
1343	10.55	6.32	128	0.696	42.2	0.00	4.49
1346	10.58	6.31	129	0.696	32.2	0.00	4.49
1349	10.59	6.31	129	0.696	16.9	0.00	4.49

MW-9: MW-9 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.9'. The well was purged and sampled at 300 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 9
Well Purging Data – MW-9

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1341	6.56	5.87	231	0.394	0.0	12.73	4.50
1344	6.30	5.83	233	0.392	0.0	12.39	4.50
1347	6.24	5.78	234	0.392	0.0	11.70	4.50
1350	6.12	5.75	236	0.392	0.0	11.27	4.50
1353	6.11	5.81	231	0.392	0.0	10.73	4.50
1356	6.12	5.81	229	0.392	0.0	10.29	4.50
1359	6.34	5.82	228	0.396	0.0	9.84	4.50

MW-10: MW-10 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.4'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge during the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 10
Well Purging Data – MW-10

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1128	6.68	6.52	-21	14.4	813	0.00	6.00
1131	6.93	6.52	-9	14.8	783	0.00	6.00
1134	7.93	6.53	14	15.1	549	0.00	6.00
1137	8.57	6.54	19	15.2	349	0.00	6.00
1140	9.09	6.53	24	14.7	247	0.00	6.00
1143	9.16	6.49	31	13.9	172	0.00	6.00
1146	9.22	6.42	40	12.6	101	0.00	6.00
1149	9.76	6.38	46	11.7	53.4	0.00	6.00
1152	9.94	6.36	49	11.4	42.0	0.00	6.00
1155	9.95	6.34	53	11.0	32.5	0.00	6.00

MW-11: MW-11 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.7'. The well was purged and sampled at 320 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Odorous and visual indications of contamination were observed.

Table 11
Well Purging Data – MW-11

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1242	7.15	6.69	88	0.312	937	0.00	3.76
1245	7.17	6.70	90	0.220	1000	0.00	3.76
1248	7.42	6.61	115	0.146	0.0	0.00	3.76
1251	7.26	6.60	126	0.145	0.0	0.00	3.76
1254	7.43	6.59	130	0.145	953	0.00	3.76
1257	7.60	6.59	135	0.142	791	0.00	3.76
1300	7.89	6.49	141	0.281	464	0.00	3.76
1303	7.86	6.51	136	0.367	282	0.00	3.76

MW-12: MW-12 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.0'. The well was purged and sampled at 200 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 12
Well Purging Data – MW-12

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1046	7.03	6.37	-58	9.20	554	0.00	5.86
1049	7.66	6.39	-69	9.19	970	0.00	5.86
1052	8.35	6.41	-33	9.21	1000	0.00	5.86
1055	8.74	6.40	-32	9.22	994	0.00	5.86
1058	9.08	6.42	-53	9.19	753	0.00	5.86
1101	9.27	6.45	-62	9.04	521	0.00	5.86
1104	9.43	6.45	-66	8.84	389	0.00	5.86
1107	9.52	6.45	-67	8.62	300	0.00	5.86

MW-13: MW-13 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 10.7'. The well was purged and sampled at 480 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 13
Well Purging Data – MW-13

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0957	8.79	6.14	146	4.24	1000	0.00	3.00
1000	8.91	6.14	144	4.27	1000	0.00	3.00
1004	8.97	6.13	135	4.32	822	0.00	3.00
1007	9.10	6.13	130	4.35	1000	0.00	3.00
1010	9.12	6.13	130	4.35	1000	0.00	3.00
1013	9.47	6.14	130	4.40	707	0.00	3.00

MW-14: MW-14 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.9'. The well was purged and sampled at 260 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 14
Well Purging Data – MW-14

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0928	8.90	6.41	44	0.346	252	6.40	4.30
0931	8.65	6.31	60	0.351	217	5.57	4.30
0934	8.88	6.24	78	0.349	189	4.58	4.30
0937	9.01	6.18	108	0.396	60.7	3.74	4.30
0940	8.99	6.18	117	0.417	41.4	3.64	4.30
0943	8.93	6.17	123	0.422	34.6	3.44	4.30

MW-15: MW-15 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.5'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Strong odorous indications of contamination were observed.

Table 15
Well Purging Data – MW-15

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1037	6.23	6.50	-109	10.2	29.7	0.00	4.00
1040	5.82	6.49	-110	11.5	0.0	0.00	4.00
1043	5.54	6.50	-112	11.6	3.2	0.00	4.00
1046	5.25	6.51	-117	11.7	2.9	0.00	4.00
1049	4.95	6.52	-118	11.7	2.4	0.00	4.00
1052	4.92	6.53	-124	11.8	13.8	0.00	4.00

OW-1: OW-1 was purged and sampled utilizing hand bailing methods. Three (3) well volumes were calculated. No odorous or visual indications of contamination were observed. A total of 10.0 gallons was extracted from the well.

Table 16
Well Purging Data – OW-1

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1440	3.51	7.56	68	5.50	3.55	0.25	Clear
1442	3.62	7.51	70	6.32	0.00	5.0	Clear
1444	3.69	7.49	73	7.21	0.00	10.0	Clear

OW-2: OW-2 was purged and sampled utilizing hand bailing methods. Three (3) well volumes were calculated. No odorous or visual indications of contamination were observed. A total of 15.0 gallons was extracted from the well.

Table 17
Well Purging Data – OW-2

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1427	1.70	7.92	56	3.92	1.20	0.25	Clear
1429	2.25	7.46	75	12.9	1.14	5.0	Clear
1431	3.01	7.51	73	9.57	0.00	10.0	Clear
1433	3.73	7.46	76	10.9	0.00	15.0	Clear

OW-3: OW-3 was purged and sampled utilizing hand bailing methods. Three (3) well volumes were calculated. No odorous or visual indications of contamination were observed. A total of 14.0 gallons was extracted from the well.

Table 18
Well Purging Data – OW-3

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1333	3.16	7.31	40	7.25	0.00	0.25	Very Silty
1334	3.90	7.45	30	4.38	0.00	5.0	Clear
1335	4.21	7.46	33	3.95	0.00	10.0	Clear
1336	3.32	7.52	42	3.99	0.00	14.0	Clear

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. Three (3) well volumes were calculated. No odorous or visual indications of contamination were observed. A total of 14.0 gallons was extracted from the well.

Table 19
Well Purging Data – OW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1243	5.58	7.82	-54	8.08	1.69	0.25	Cloudy
1246	5.32	7.34	-26	3.56	0.00	5.0	Clear
1247	5.22	7.27	-6	3.18	0.00	10.0	Clear
1248	5.17	7.27	-1	3.13	3.92	14.0	Clear

RW-1: RW-1 was previously destroyed by on-site snow plowing activities, compromised and not sampled at this time.

Table 20
Final Sample Data Summary

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Level (Feet)
MW-1	8.32	7.38	-119	71.2	--	3.16	13.65
MW-2	6.75	6.74	-129	15.0	144	0.48	4.70
MW-3	6.73	6.71	-118	3.76	126	0.00	4.44
MW-4	5.25	6.86	-167	7.57	312	0.00	3.70
MW-5	6.89	6.86	-166	12.2	0.0	0.00	4.40
MW-6	5.20	8.23	187	14.1	16.0	0.00	5.00
MW-7	--	--	--	--	--	--	--
MW-8	10.59	6.31	129	0.696	16.9	0.00	4.49
MW-9	6.34	5.82	228	0.396	0.0	9.84	4.50
MW-10	9.95	6.34	53	11.0	32.5	0.00	6.00
MW-11	7.86	6.51	136	0.367	282	0.00	3.76
MW-12	9.52	6.45	-67	8.62	300	0.00	5.86
MW-13	9.47	6.14	130	4.40	707	0.00	3.00
MW-14	8.93	6.17	123	0.422	34.6	3.44	4.30
MW-15	4.92	6.53	-124	11.8	13.8	0.00	4.00
OW-1	3.69	7.46	73	7.76	--	0.00	3.52
OW-2	4.32	7.37	79	11.0	--	0.00	3.47
OW-3	3.12	7.42	33	4.07	--	0.00	4.20
OW-4	5.43	7.23	18	5.02	--	0.00	4.25
RW-1	--	--	--	--	--	--	--

Table 21
Metals Data Summary

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1	--	--	--	--
MW-2	--	--	--	--
MW-3	--	--	--	--
MW-4	--	--	--	--
MW-5	1.7	0.11	0.8	56
MW-6	15.2	>3.00	2.8	27
MW-7	NS	NS	NS	NS
MW-8	0.7	0.00	2.3	13
MW-9	1.3	0.05	5.1	15
MW-10	17.8	0.16	1.0	71
MW-11	--	--	--	--
MW-12	--	--	--	--
MW-13	--	--	--	--
MW-14	0.8	0.07	2.4	8
MW-15	10.2	2.37	5.0	>70
OW-1	--	--	--	--
OW-2	--	--	--	--
OW-3	--	--	--	--
OW-4	--	--	--	--
RW-1	--	--	--	--

Table 22
Sample Log

Well #	Time	Date
112-0218-MW1	1300	02.19.2019
112-0218-MW2	1120	02.19.2019
112-0218-MW3	1030	02.19.2019
112-0218-MW4	1200	02.19.2019
112-0218-MW5	0945	02.19.2019
112-0218-MW6	0910	02.19.2019
112-0218-MW7	NS	NS
112-0218-MW8	1350	02.18.2019
112-0218-MW9	1400	02.18.2019
112-0218-MW10	1158	02.18.2019
112-0218-MW11	1305	02.18.2019
112-0218-MW12	1110	02.18.2019
112-0218-MW13	1016	02.18.2019
112-0218-MW14	0946	02.18.2019
112-0218-MW15	1100	02.19.2019
112-0218-FB1	1020	02.18.2019
112-0218-FB2	1200	02.19.2019
112-0218-OW1	1425	02.19.2019
112-0218-OW2	1415	02.19.2019
112-0218-OW3	1315	02.19.2019
112-0218-OW4	1400	02.19.2019
112-0218-RW1	NS	NS

Day 1:
0915: Onsite
1420: Offsite

Day 2:
0838: Onsite
1500: Offsite

SN / mg

ATTACHMENT E

Groundwater Elevation Data Summary Tables

NM **Not Measured**
NA **Not Applicable**

[illegible]

NM
Not Measured

NA
Not Applicable

NM **Not Measured**
NA **Not Applicable**

NM **Not Measured**
NA **Not Applicable**

ATTACHMENT F

Groundwater Contour Maps

ATTACHMENT G

Laboratory Analytical Data Sheets

February 28, 2019

Mr. Marty Gilgallon
LaBella-Dunmore
1000 Dunham Drive
Suite B
Scranton, PA 18512

Certificate of Analysis

Project Name:	Pump N Pantry	Workorder:	3017985
Purchase Order:		Workorder ID:	Pump N Pantry

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 22, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matthew Morell, Mr. Kevin Cucura

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Amy K Borden
Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 3017985 Pump N Pantry

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3017985001	112-0218-MW1	Ground Water	2/19/2019 13:00	2/22/2019 09:38	Collected by Client
3017985002	112-0218-MW2	Ground Water	2/19/2019 11:20	2/22/2019 09:38	Collected by Client
3017985003	112-0218-MW3	Ground Water	2/19/2019 10:30	2/22/2019 09:38	Collected by Client
3017985004	112-0218-MW4	Ground Water	2/19/2019 12:00	2/22/2019 09:38	Collected by Client
3017985005	112-0218-MW5	Ground Water	2/19/2019 09:45	2/22/2019 09:38	Collected by Client
3017985006	112-0218-MW6	Ground Water	2/19/2019 09:10	2/22/2019 09:38	Collected by Client
3017985007	112-0218-MW8	Ground Water	2/18/2019 13:50	2/22/2019 09:38	Collected by Client
3017985008	112-0218-MW9	Ground Water	2/18/2019 14:00	2/22/2019 09:38	Collected by Client
3017985009	112-0218-MW10	Ground Water	2/18/2019 11:58	2/22/2019 09:38	Collected by Client
3017985010	112-0218-MW15	Ground Water	2/19/2019 11:00	2/22/2019 09:38	Collected by Client
3017985011	112-0218-FB1	Ground Water	2/18/2019 10:20	2/22/2019 09:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3017985 Pump N Pantry

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985001**
Sample ID: **112-0218-MW1**

Date Collected: 2/19/2019 13:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 03:55	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 03:55	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	129		%	62 - 133	SW846 8260B			2/27/19 03:55	PDK	A
4-Bromofluorobenzene (S)	84.5		%	79 - 114	SW846 8260B			2/27/19 03:55	PDK	A
Dibromofluoromethane (S)	125	1	%	78 - 116	SW846 8260B			2/27/19 03:55	PDK	A
Toluene-d8 (S)	91.4		%	76 - 127	SW846 8260B			2/27/19 03:55	PDK	A



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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985002**
Sample ID: **112-0218-MW2**

Date Collected: 2/19/2019 11:20 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	30.2		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Ethylbenzene	91.6		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Isopropylbenzene	10.2		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Naphthalene	11.5		ug/L	2.0	SW846 8260B			2/27/19 20:25	TMP	B
Toluene	8.5		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Total Xylenes	35.3		ug/L	3.0	SW846 8260B			2/27/19 20:25	TMP	B
1,2,4-Trimethylbenzene	90.0		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B			2/27/19 20:25	TMP	B
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B			2/27/19 20:25	TMP	B
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B			2/27/19 20:25	TMP	B
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B			2/27/19 20:25	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985003**
Sample ID: **112-0218-MW3**

Date Collected: 2/19/2019 10:30 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	38.0		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Ethylbenzene	76.7		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Isopropylbenzene	11.2		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 19:40	TMP	B
Toluene	2.5		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 19:40	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B			2/27/19 19:40	TMP	B
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B			2/27/19 19:40	TMP	B
Dibromofluoromethane (S)	96.3		%	78 - 116	SW846 8260B			2/27/19 19:40	TMP	B
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B			2/27/19 19:40	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985004**
Sample ID: **112-0218-MW4**

Date Collected: 2/19/2019 12:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	465	2	ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Ethylbenzene	649		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Isopropylbenzene	54.3		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Naphthalene	89.5		ug/L	10.0	SW846 8260B			2/27/19 20:47	TMP	B
Toluene	78.8		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Total Xylenes	427		ug/L	15.0	SW846 8260B			2/27/19 20:47	TMP	B
1,2,4-Trimethylbenzene	298		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
1,3,5-Trimethylbenzene	57.4		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62 - 133	SW846 8260B			2/27/19 20:47	TMP	B
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B			2/27/19 20:47	TMP	B
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B			2/27/19 20:47	TMP	B
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B			2/27/19 20:47	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985005**
Sample ID: **112-0218-MW5**

Date Collected: 2/19/2019 09:45 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	101	2	ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Ethylbenzene	115		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Isopropylbenzene	24.4		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Methyl t-Butyl Ether	12.6		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Naphthalene	19.6		ug/L	10.0	SW846 8260B			2/27/19 21:10	TMP	B
Toluene	6.9		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Total Xylenes	ND		ug/L	15.0	SW846 8260B			2/27/19 21:10	TMP	B
1,2,4-Trimethylbenzene	10.5		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62 - 133	SW846 8260B			2/27/19 21:10	TMP	B
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B			2/27/19 21:10	TMP	B
Dibromofluoromethane (S)	94.4		%	78 - 116	SW846 8260B			2/27/19 21:10	TMP	B
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B			2/27/19 21:10	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985006**
Sample ID: **112-0218-MW6**

Date Collected: 2/19/2019 09:10 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 20:02	TMP	B
Toluene	1.7		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 20:02	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	112		%	62 - 133	SW846 8260B			2/27/19 20:02	TMP	B
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B			2/27/19 20:02	TMP	B
Dibromofluoromethane (S)	97.1		%	78 - 116	SW846 8260B			2/27/19 20:02	TMP	B
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B			2/27/19 20:02	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985007**
Sample ID: **112-0218-MW8**

Date Collected: 2/18/2019 13:50 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND	2	ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 05:04	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 05:04	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	125		%	62 - 133	SW846 8260B			2/27/19 05:04	PDK	A
4-Bromofluorobenzene (S)	82.9		%	79 - 114	SW846 8260B			2/27/19 05:04	PDK	A
Dibromofluoromethane (S)	120	1	%	78 - 116	SW846 8260B			2/27/19 05:04	PDK	A
Toluene-d8 (S)	89.5		%	76 - 127	SW846 8260B			2/27/19 05:04	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985008**
Sample ID: **112-0218-MW9**

Date Collected: 2/18/2019 14:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 18:55	TMP	A
Toluene	2.3		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 18:55	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B			2/27/19 18:55	TMP	A
4-Bromofluorobenzene (S)	99.8		%	79 - 114	SW846 8260B			2/27/19 18:55	TMP	A
Dibromofluoromethane (S)	96.2		%	78 - 116	SW846 8260B			2/27/19 18:55	TMP	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			2/27/19 18:55	TMP	A



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985009**
Sample ID: **112-0218-MW10**

Date Collected: 2/18/2019 11:58 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 05:28	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 05:28	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	131		%	62 - 133	SW846 8260B			2/27/19 05:28	PDK	A
4-Bromofluorobenzene (S)	84.7		%	79 - 114	SW846 8260B			2/27/19 05:28	PDK	A
Dibromofluoromethane (S)	126	1	%	78 - 116	SW846 8260B			2/27/19 05:28	PDK	A
Toluene-d8 (S)	91.2		%	76 - 127	SW846 8260B			2/27/19 05:28	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985010**
Sample ID: **112-0218-MW15**

Date Collected: 2/19/2019 11:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	42.3		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Ethylbenzene	276		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Isopropylbenzene	77.2		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Naphthalene	15.6		ug/L	10.0	SW846 8260B			2/27/19 21:32	TMP	B
Toluene	60.8		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Total Xylenes	202		ug/L	15.0	SW846 8260B			2/27/19 21:32	TMP	B
1,2,4-Trimethylbenzene	279		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B			2/27/19 21:32	TMP	B
4-Bromofluorobenzene (S)	102		%	79 - 114	SW846 8260B			2/27/19 21:32	TMP	B
Dibromofluoromethane (S)	96.4		%	78 - 116	SW846 8260B			2/27/19 21:32	TMP	B
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			2/27/19 21:32	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985011**
Sample ID: **112-0218-FB1**

Date Collected: 2/18/2019 10:20 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND	2	ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 01:13	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 01:13	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	122		%	62 - 133	SW846 8260B			2/27/19 01:13	PDK	A
4-Bromofluorobenzene (S)	82.5		%	79 - 114	SW846 8260B			2/27/19 01:13	PDK	A
Dibromofluoromethane (S)	119	1	%	78 - 116	SW846 8260B			2/27/19 01:13	PDK	A
Toluene-d8 (S)	89.8		%	76 - 127	SW846 8260B			2/27/19 01:13	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3017985001	1	112-0218-MW1	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 125 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017985004	2	112-0218-MW4	SW846 8260B	Benzene
VTC - The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3017985005	2	112-0218-MW5	SW846 8260B	Benzene
VTC - The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3017985007	1	112-0218-MW8	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 120 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017985007	2	112-0218-MW8	SW846 8260B	Benzene
The sample submitted for volatiles analysis contained headspace. The method requires that the samples be collected without headspace in order to prevent the loss of volatile organics. Results reported should be considered estimated.				
3017985009	1	112-0218-MW10	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 126 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017985011	1	112-0218-FB1	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 119 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017985011	2	112-0218-FB1	SW846 8260B	Benzene
The sample submitted for volatiles analysis contained headspace. The method requires that the samples be collected without headspace in order to prevent the loss of volatile organics. Results reported should be considered estimated.				

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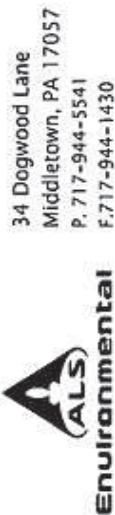
**ANALYSIS - PREP METHOD CROSS REFERENCE TABLE**

Workorder: 3017985 Pump N Pantry

Lab ID	Sample ID	Analysis Method	Prep Method
3017985001	112-0218-MW1	SW846 8260B	
3017985002	112-0218-MW2	SW846 8260B	
3017985003	112-0218-MW3	SW846 8260B	
3017985004	112-0218-MW4	SW846 8260B	
3017985005	112-0218-MW5	SW846 8260B	
3017985006	112-0218-MW6	SW846 8260B	
3017985007	112-0218-MW8	SW846 8260B	
3017985008	112-0218-MW9	SW846 8260B	
3017985009	112-0218-MW10	SW846 8260B	
3017985010	112-0218-MW15	SW846 8260B	
3017985011	112-0218-FB1	SW846 8260B	

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COC #:	2617985	2 of 2
ALS Quote #:		

[illegible]

"G=Grab; C=Composite
 "Matrix - A=Air; DW=Drinking Water; GW=Groundwater; O=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wine; WW=Wastewater

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Rev 10/11



301 Fulling Mill Road
Middletown, PA 17057
P: (717) 944-5541
F: (717) 944-1430

Condition of Sample Receipt Form

Client:	Work Order #:	Initials:	Date:
3017915			
1. Were airbills / tracking numbers present and recorded?.....		NONE	☒ YES NO
Tracking number: 8144 0499 795			
2. Are Custody Seals on shipping containers intact?.....		☒ NONE	YES NO
3. Are Custody Seals on sample containers intact?.....		☒ NONE	YES NO
4. Is there a COC (Chain-of-Custody) present?.....		☒ YES	NO
5. Are the COC and bottle labels complete, legible and in agreement?.....		☒ YES	NO
5a. Does the COC contain sample locations?.....		☒ YES	NO
5b. Does the COC contain date and time of sample collection for all samples?.....		☒ YES	NO
5c. Does the COC contain sample collectors name?.....		☒ YES	NO
5d. Does the COC note the type(s) of preservation for all bottles?.....		☒ YES	NO
5e. Does the COC note the number of bottles submitted for each sample?.....		☒ YES	NO
5f. Does the COC note the type of sample, composite or grab?.....		☒ YES	NO
5g. Does the COC note the matrix of the sample(s)?.....		☒ YES	NO
6. Are all aqueous samples requiring preservation preserved correctly?		N/A	☒ YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?.....		☒ YES	NO
8. Are all samples within holding times for the requested analyses?.....		☒ YES	NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.).....		☒ YES	NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?.....		☒ N/A	YES NO
11. Were the samples received on ice?.....		☒ YES	NO
12. Were sample temperatures measured at 0.0-6.0°C.....		☒ YES	NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below.....		☒ YES	☒ NO
13a. Are the samples required for SDWA compliance reporting?.....		☒ N/A	YES NO
13b. Did the client provide a SDWA PWS ID#?.....		☒ N/A	YES NO
13c. Are all aqueous unpreserved SDWA samples pH 5-9?.....		☒ N/A	YES NO
13d. Did the client provide the SDWA sample location ID/Description?.....		☒ N/A	YES NO
13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?.....		☒ N/A	YES NO

Cooler #: 1
Temperature (°C): 5
Thermometer ID: 352

COMMENTS (Required for all NO responses above and any sample non-conformance):

Rev. 1/10/2019

February 27, 2019

Mr. Marty Gilgallon
LaBella-Dunmore
1000 Dunham Drive
Suite B
Scranton, PA 18512

Certificate of Analysis

Project Name: **Pump N Pantry**Workorder: **3017982**

Purchase Order:

Workorder ID: **Pump N Pantry**

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 22, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matthew Morell, Mr. Kevin Cucura

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Amy K Borden

Project Coordinator

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SAMPLE SUMMARY

Workorder: 3017982 Pump N Pantry

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3017982001	112-0218-OW1	Ground Water	2/19/2019 14:25	2/22/2019 09:38	Collected by Client
3017982002	112-0218-OW2	Ground Water	2/19/2019 14:15	2/22/2019 09:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3017982 Pump N Pantry

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3017982 Pump N Pantry

Lab ID: **3017982001**
Sample ID: **112-0218-OW1**

Date Collected: 2/19/2019 14:25 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 02:23	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 02:23	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	127		%	62 - 133	SW846 8260B			2/27/19 02:23	PDK	A
4-Bromofluorobenzene (S)	84.4		%	79 - 114	SW846 8260B			2/27/19 02:23	PDK	A
Dibromofluoromethane (S)	124	1	%	78 - 116	SW846 8260B			2/27/19 02:23	PDK	A
Toluene-d8 (S)	90.9		%	76 - 127	SW846 8260B			2/27/19 02:23	PDK	A



Ms. Amy K Borden
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3017982 Pump N Pantry

Lab ID: **3017982002**
Sample ID: **112-0218-OW2**

Date Collected: 2/19/2019 14:15 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 02:46	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 02:46	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	126		%	62 - 133	SW846 8260B			2/27/19 02:46	PDK	A
4-Bromofluorobenzene (S)	83.4		%	79 - 114	SW846 8260B			2/27/19 02:46	PDK	A
Dibromofluoromethane (S)	123	1	%	78 - 116	SW846 8260B			2/27/19 02:46	PDK	A
Toluene-d8 (S)	90.2		%	76 - 127	SW846 8260B			2/27/19 02:46	PDK	A



Ms. Amy K Borden
Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 3017982 Pump N Pantry

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3017982001	1	112-0218-OW1	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 124 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017982002	1	112-0218-OW2	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 123 and the control limits were 78 to 116. This result was reported at a dilution of 1.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3017982 Pump N Pantry

Lab ID	Sample ID	Analysis Method	Prep Method
3017982001	112-0218-OW1	SW846 8260B	
3017982002	112-0218-OW2	SW846 8260B	

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: LaBella Associates, P.C.		Container Type	CG	Cooler Temp: _____ Therm ID: _____		No. of Coolers: _____ Y _____ N _____ Initial	
Address: 1000 Dunham Drive, Suite B Dunmore, PA. 18512		Container Size	40 ml	Custody Seals Present?		(if present) Seals intact?	
Contact: Martin Gligallon		Preservative	HCL	COCILabels Complete/Accurate?		Received on Ice?	
Phone#: (570) 487-1959				Cont. In Good Cond.?		Correct Containers?	
Project Name#: 2171845/Pump-n-Pantry #001				Correct Sample Volumes?		Correct Preservation?	
Bill To: Lynn Hanichak				HeadSpace/Volatiles?		Courier Tracking #:	
TAT ☒ Normal-Standard TAT is 10-12 business days.							
Date Required: _____ Approved By: _____							
Email? ☒ Y ☐ N mgilgallon@labellapc.com							
Fax? ☐ Y ☐ N							
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.			
1 112-0218-OW1		19 Feb 19	1425	G	GW	2	
2 112-0218-OW2		19 Feb 19	1415	G	GW	2	
3							
4							
5							
6							
7							
8							
9							
10							
Project Comments: <i>Fedex # 8144 0499 7995</i>		LOGGED BY (signature):		Date		Time	
		REVIEWED BY (signature):		Date		Time	
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time
1 <i>M. Hanichak</i>		19 Feb 19	1700	Susan Novak-LABELLA		19 Feb 19	1700
3 <i>Susan Novak-LABELLA</i>		19 Feb 19	1400	FEDEX # 8144 0499 7995		19 Feb 19	1400
5 COMMON COURIER / ALS COURIER							
7							
9							
State Samples Collected In		Special Processing		Data Deliverables		PWSID #	
USACE ☐ Navy ☐ PA ☒ NC ☐		USACE ☐ Navy ☐ Special ☐		Reportable to PADEP? Yes ☐ No ☐		EDDS: Format Type: _____	
ALS Field Services: _____ Pickup _____ Labor _____ Composite Sampling _____ Rental Equipment _____ Other: _____							



301 Fulling Mill Road
Middletown, PA 17057

P: (717) 944-5541

F: (717) 944-1430

Condition of Sample Receipt Form

Client: _____ Work Order #: 3017982 Initials: _____ Date: _____

1. Were airbills / tracking numbers present and recorded?..... NONE ☒ YES NO
Tracking number: 8144 0499 7995
2. Are Custody Seals on shipping containers intact?..... ☒ NONE YES NO
3. Are Custody Seals on sample containers intact?..... ☒ NONE YES NO
4. Is there a COC (Chain-of-Custody) present?..... ☒ YES NO
5. Are the COC and bottle labels complete, legible and in agreement?..... ☒ YES NO
- 5a. Does the COC contain sample locations?..... ☒ YES NO
- 5b. Does the COC contain date and time of sample collection for all samples?..... ☒ YES NO
- 5c. Does the COC contain sample collectors name?..... ☒ YES NO
- 5d. Does the COC note the type(s) of preservation for all bottles?..... ☒ YES NO
- 5e. Does the COC note the number of bottles submitted for each sample?..... ☒ YES NO
- 5f. Does the COC note the type of sample, composite or grab?..... ☒ YES NO
- 5g. Does the COC note the matrix of the sample(s)?..... ☒ YES NO
6. Are all aqueous samples requiring preservation preserved correctly?..... N/A ☒ YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... ☒ YES NO
8. Are all samples within holding times for the requested analyses?..... ☒ YES NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... ☒ YES NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... ☒ N/A YES NO
11. Were the samples received on ice?..... ☒ YES NO
12. Were sample temperatures measured at 0.0-6.0°C..... ☒ YES NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... YES ☒ NO
- 13a. Are the samples required for SDWA compliance reporting?..... ☒ N/A YES NO
- 13b. Did the client provide a SDWA PWS ID#?..... ☒ N/A YES NO
- 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... ☒ N/A YES NO
- 13d. Did the client provide the SDWA sample location ID/Description?..... ☒ N/A YES NO
- 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... ☒ N/A YES NO

Cooler #: 1 _____
Temperature (°C): 5 _____
Thermometer ID: 352 _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

Rev. 1/10/2019

February 27, 2019

Mr. Marty Gilgallon
LaBella-Dunmore
1000 Dunham Drive
Suite B
Scranton, PA 18512

Certificate of Analysis

Project Name: 2171846/Pump-n-Pantry #001	Workorder: 3017971
Purchase Order:	Workorder ID: 2171846/Pump-n-Pantry #001

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 22, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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CC: Mr. Matthew Morell, Mr. Kevin Cucura

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Ms. Amy K Borden
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3017971001	112-0218-MW12	Ground Water	2/18/2019 11:10	2/22/2019 09:38	Collected by Client
3017971002	112-0218-MW13	Ground Water	2/18/2019 10:16	2/22/2019 09:38	Collected by Client
3017971003	112-0218-MW14	Ground Water	2/18/2019 09:46	2/22/2019 09:38	Collected by Client
3017971004	112-0218-FB2	Ground Water	2/19/2019 10:20	2/22/2019 09:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3017971 2171846/Pump-n-Pantry #001

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
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Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
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(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID: **3017971001**
Sample ID: **112-0218-MW12**

Date Collected: 2/18/2019 11:10 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 04:53	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 04:53	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62 - 133	SW846 8260B			2/27/19 04:53	PDK	A
4-Bromofluorobenzene (S)	102		%	79 - 114	SW846 8260B			2/27/19 04:53	PDK	A
Dibromofluoromethane (S)	95.3		%	78 - 116	SW846 8260B			2/27/19 04:53	PDK	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			2/27/19 04:53	PDK	A



Ms. Amy K Borden
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID: **3017971002**
Sample ID: **112-0218-MW13**

Date Collected: 2/18/2019 10:16 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 05:16	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 05:16	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62 - 133	SW846 8260B			2/27/19 05:16	PDK	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			2/27/19 05:16	PDK	A
Dibromofluoromethane (S)	95.7		%	78 - 116	SW846 8260B			2/27/19 05:16	PDK	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B			2/27/19 05:16	PDK	A

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ANALYTICAL RESULTS

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID: **3017971003**
Sample ID: **112-0218-MW14**

Date Collected: 2/18/2019 09:46 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 02:00	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 02:00	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	126		%	62 - 133	SW846 8260B			2/27/19 02:00	PDK	A
4-Bromofluorobenzene (S)	83.8		%	79 - 114	SW846 8260B			2/27/19 02:00	PDK	A
Dibromofluoromethane (S)	121	1	%	78 - 116	SW846 8260B			2/27/19 02:00	PDK	A
Toluene-d8 (S)	90.9		%	76 - 127	SW846 8260B			2/27/19 02:00	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID: **3017971004**
Sample ID: **112-0218-FB2**

Date Collected: 2/19/2019 10:20 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 01:37	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 01:37	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	123		%	62 - 133	SW846 8260B			2/27/19 01:37	PDK	A
4-Bromofluorobenzene (S)	84.7		%	79 - 114	SW846 8260B			2/27/19 01:37	PDK	A
Dibromofluoromethane (S)	120	1	%	78 - 116	SW846 8260B			2/27/19 01:37	PDK	A
Toluene-d8 (S)	90.8		%	76 - 127	SW846 8260B			2/27/19 01:37	PDK	A



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**ANALYTICAL RESULTS**

Workorder: 3017971 2171846/Pump-n-Pantry #001

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3017971003	1	112-0218-MW14	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 121 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017971004	1	112-0218-FB2	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 120 and the control limits were 78 to 116. This result was reported at a dilution of 1.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID	Sample ID	Analysis Method	Prep Method
3017971001	112-0218-MW12	SW846 8260B	
3017971002	112-0218-MW13	SW846 8260B	
3017971003	112-0218-MW14	SW846 8260B	
3017971004	112-0218-FB2	SW846 8260B	

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/

REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: Labella Associates, P.C.		Container Type	CG	Cooler Temp: 5 Therm ID: 1	
Address: 1000 Dunham Drive, Suite B		Container Size	40 ml	No. of Coolers: Y N Initial	
Dunmore, PA 18512		Preservative	HCL	Custody Seals Present?	
Contact: Martin Gligallon		COCILabels Complete/Accurate?			
Phone#: (570) 487-1959		Correct Containers?			
Project Name#: 2171846/Pump-n-Pantry #001		Correct Sample Volumes?			
Bill To: Lynn Hanichak		Correct Preservation?			
TAT ☒ Normal-Standard TAT is 10-12 business days.		HeadSpace/Volatiles?			
Date Required: Rush-Subject to ALS approval and surcharges.		Courier/Tracking #:			
Email? Y Y mgilgallon@labellapc.com		Sample/COC Comments			
Fax? Y Y No:		ALS Field Services: Pickup Labor Composite Sampling Rental Equipment Other:			
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	State Samples Collected In	
1 112-0218-MW11		18 Feb 19	1305	USACE	
2 112-0218-MW12		18 Feb 19	1110	Navy	
3 112-0218-MW13		18 Feb 19	1010	USACE	
4 112-0218-MW14		18 Feb 19	0940	Reportable to PADEP?	
5 112-0218-FB2		19 Feb 19	1020	Yes	
6				PWSID #	
7				EDDS: Format Type	
8				Reportable to PADEP?	
9				Yes	
10				PWSID #	
Project Comments: FedEx # 8144 0499 7995		LOGGED BY (signature):		Deliverables	
		REVIEWED BY (signature):		Data	
Relinquished By / Company Name		Date	Time	Received By / Company Name	
17 M. Hanichak / Environmental		19 Feb 19	1700	Susan Noyce - LABELLA	
3 Susan Noyce - LABELLA		19 Feb 19	1400	FED EX # 8144 0499 7995	
5 COMMON COURIER / ALS COURIER		19 Feb 19	1400	6	
7				8	
9				10	



301 Fulling Mill Road
Middletown, PA 17057

P: (717) 944-5541

F: (717) 944-1430

Condition of Sample Receipt Form

Client: Labella Ass. Work Order #: 3017971 Initials: SS Date: 2/22/19

- | | | | |
|--|---------------------------------------|--------------------------------------|-------------------------------------|
| 1. Were airbills / tracking numbers present and recorded?..... | NONE | ☒ YES | NO |
| Tracking number: <u>8144 0499 7995</u> | | | |
| 2. Are Custody Seals on shipping containers intact?..... | NONE | ☒ YES | NO |
| 3. Are Custody Seals on sample containers intact?..... | ☒ NONE | YES | NO |
| 4. Is there a COC (Chain-of-Custody) present?..... | | ☒ YES | NO |
| 5. Are the COC and bottle labels complete, legible and in agreement?..... | | ☒ YES | NO |
| 5a. Does the COC contain sample locations?..... | | ☒ YES | NO |
| 5b. Does the COC contain date and time of sample collection for all samples?..... | | ☒ YES | NO |
| 5c. Does the COC contain sample collectors name?..... | | ☒ YES | NO |
| 5d. Does the COC note the type(s) of preservation for all bottles?..... | | ☒ YES | NO |
| 5e. Does the COC note the number of bottles submitted for each sample?..... | | ☒ YES | NO |
| 5f. Does the COC note the type of sample, composite or grab?..... | | ☒ YES | NO |
| 5g. Does the COC note the matrix of the sample(s)?..... | | ☒ YES | NO |
| 6. Are all aqueous samples requiring preservation preserved correctly?..... | N/A | ☒ YES | NO |
| 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... | | ☒ YES | NO |
| 8. Are all samples within holding times for the requested analyses?..... | | ☒ YES | NO |
| 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... | | YES | ☒ NO |
| 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631 E (LL Hg)?..... | ☒ N/A | YES | NO |
| 11. Were the samples received on ice?..... | | ☒ YES | NO |
| 12. Were sample temperatures measured at 0.0-6.0°C..... | | ☒ YES | NO |
| 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... | | YES | ☒ NO |
| 13a. Are the samples required for SDWA compliance reporting?..... | ☒ N/A | YES | NO |
| 13b. Did the client provide a SDWA PWS ID#?..... | ☒ N/A | YES | NO |
| 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... | ☒ N/A | YES | NO |
| 13d. Did the client provide the SDWA sample location ID/Description?..... | ☒ N/A | YES | NO |
| 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... | ☒ N/A | YES | NO |

Cooler #: 1

Temperature (°C): 5

Thermometer ID: 352

COMMENTS (Required for all NO responses above and any sample non-conformance):

MW 11 received broken

Rev. 1/10/2019

February 28, 2019

Mr. Marty Gilgallon
LaBella-Dunmore
1000 Dunham Drive
Suite B
Scranton, PA 18512

Certificate of Analysis

Project Name: **Pump N Pantry**Workorder: **3017984**

Purchase Order:

Workorder ID: **Pump N Pantry**

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 22, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matthew Morell, Mr. Kevin Cucura

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Amy K Borden
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3017984 Pump N Pantry

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3017984001	112-0218-OW3	Ground Water	2/19/2019 13:15	2/22/2019 09:38	Collected by Client
3017984002	112-0218-OW4	Ground Water	2/19/2019 14:00	2/22/2019 09:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3017984 Pump N Pantry

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3017984 Pump N Pantry

Lab ID: **3017984001**
Sample ID: **112-0218-OW3**

Date Collected: 2/19/2019 13:15 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND	4	ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Methyl t-Butyl Ether	ND	2,3	ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 03:09	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 03:09	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	129		%	62 - 133	SW846 8260B			2/27/19 03:09	PDK	A
4-Bromofluorobenzene (S)	84.6		%	79 - 114	SW846 8260B			2/27/19 03:09	PDK	A
Dibromofluoromethane (S)	123	1	%	78 - 116	SW846 8260B			2/27/19 03:09	PDK	A
Toluene-d8 (S)	90.5		%	76 - 127	SW846 8260B			2/27/19 03:09	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017984 Pump N Pantry

Lab ID: **3017984002**
Sample ID: **112-0218-OW4**

Date Collected: 2/19/2019 14:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 19:17	TMP	B
Toluene	1.9		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 19:17	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B			2/27/19 19:17	TMP	B
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B			2/27/19 19:17	TMP	B
Dibromofluoromethane (S)	95.8		%	78 - 116	SW846 8260B			2/27/19 19:17	TMP	B
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			2/27/19 19:17	TMP	B



Ms. Amy K Borden
Project Coordinator

ALS Environmental Laboratory Locations Across North America

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

**ANALYTICAL RESULTS**

Workorder: 3017984 Pump N Pantry

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3017984001	1	112-0218-OW3	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 123 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017984001	2	112-0218-OW3	SW846 8260B	Methyl t-Butyl Ether
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 116 and the control limits were 69 to 115.				
3017984001	3	112-0218-OW3	SW846 8260B	Methyl t-Butyl Ether
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 116 and the control limits were 69 to 115.				
3017984001	4	112-0218-OW3	SW846 8260B	Benzene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Benzene. The % Recovery was reported as 127 and the control limits were 80 to 124.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3017984 Pump N Pantry

Lab ID	Sample ID	Analysis Method	Prep Method
3017984001	112-0218-OW3	SW846 8260B	
3017984002	112-0218-OW4	SW846 8260B	

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/

REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: LaBella Associates, P.C.		Container Type	CG	Cooler Temp: _____ Therm ID: _____		No. of Coolers: _____ Y _____ N _____ Initial _____	
Address: 1000 Dunham Drive, Suite B Dunmore, PA 18512		Container Size	40 ml				
Contact: Martin Gilgallon		Preservative	HCL				
Phone#: (570) 487-1959		ANALYSES/METHOD REQUESTED					
Project Name#: 2171846/Pump-n-Pantry #001							
Bill To: Lynn Hanichak							
TAT ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.							
Date Required: _____ Approved By: _____							
Email? ☒ Y ☐ N <u>mgilgallon@labellapc.com</u>							
Fax? ☐ Y ☐ N _____							
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.			
1 112-0218-OW3		19/08/19	1315	G	GW	2	
2 112-0218-OW4		19/08/19	1400	G	GW	2	
3							
4							
5							
6							
7							
8							
9							
10							
Project Comments: <i>Leaky # 8144 0499 7995</i>		LOGGED BY (signature):		RECEIVED BY (signature):		ALS Field Services: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other: _____	
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	
1 <i>Martha Novak - LABELLA</i>		19/08/19	1700	3 <i>Susan Novak - LABELLA</i>		3/19/19 1700	
3 <i>Susan Novak - LABELLA</i>		20/11/19	1400	4 <i>FEDERAL 8144 0499 7995</i>		20/11/19 1400	
5 <i>COMMON COURIER / ALS COURIER</i>				6		2/12/19 9:35	
7				8			
9				10			
Data Deliverables		X ☒ Standard ☐ CLP-like ☐ USACE		Special Processing		State Samples Collected In	
Reportable to PADEP? Yes ☐ No ☐		USACE Navy ☐		USACE Navy ☐		NY ☐ NJ ☐ PA ☒ NC ☐	
PWSID #				Sample Disposal		Lab ☐ Special ☐	
EDDS: Format Type							

* G=Grab; C=Composite

**Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 10/11



301 Fulling Mill Road
Middletown, PA 17057
P: (717) 944-5541
F: (717) 944-1430

Condition of Sample Receipt Form

Client: _____ Work Order #: 3017984 Initials: _____ Date: _____

- | | | | |
|--|---------------------------------------|--------------------------------------|-------------------------------------|
| 1. Were airbills / tracking numbers present and recorded?..... | NONE | ☒ YES | NO |
| Tracking number: <u>8144 0499 7995</u> | | | |
| 2. Are Custody Seals on shipping containers intact?..... | ☒ NONE | YES | NO |
| 3. Are Custody Seals on sample containers intact?..... | ☒ NONE | YES | NO |
| 4. Is there a COC (Chain-of-Custody) present?..... | | ☒ YES | NO |
| 5. Are the COC and bottle labels complete, legible and in agreement?..... | | ☒ YES | NO |
| 5a. Does the COC contain sample locations?..... | | ☒ YES | NO |
| 5b. Does the COC contain date and time of sample collection for all samples?..... | | ☒ YES | NO |
| 5c. Does the COC contain sample collectors name?..... | | ☒ YES | NO |
| 5d. Does the COC note the type(s) of preservation for all bottles?..... | | ☒ YES | NO |
| 5e. Does the COC note the number of bottles submitted for each sample?..... | | ☒ YES | NO |
| 5f. Does the COC note the type of sample, composite or grab?..... | | ☒ YES | NO |
| 5g. Does the COC note the matrix of the sample(s)?..... | | ☒ YES | NO |
| 6. Are all aqueous samples requiring preservation preserved correctly? | N/A | ☒ YES | NO |
| 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... | | ☒ YES | NO |
| 8. Are all samples within holding times for the requested analyses?..... | | ☒ YES | NO |
| 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... | | ☒ YES | NO |
| 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... | ☒ N/A | YES | NO |
| 11. Were the samples received on ice?..... | | ☒ YES | NO |
| 12. Were sample temperatures measured at 0.0-6.0°C..... | | ☒ YES | NO |
| 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... | | YES | ☒ NO |
| 13a. Are the samples required for SDWA compliance reporting?..... | ☒ N/A | YES | NO |
| 13b. Did the client provide a SDWA PWS ID#?..... | ☒ N/A | YES | NO |
| 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... | ☒ N/A | YES | NO |
| 13d. Did the client provide the SDWA sample location ID/Description?..... | ☒ N/A | YES | NO |
| 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... | ☒ N/A | YES | NO |

Cooler #: 1
Temperature (°C): 5
Thermometer ID: 352

COMMENTS (Required for all NO responses above and any sample non-conformance):

Rev. 1/10/2019

ATTACHMENT H

Groundwater Analytical Data & Intrinsic Data Summary Tables

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-1	10/19/2016	1654.16	15.22	1638.94	0.00	Characterization	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	1654.16	4.51	1649.65	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/22/2017	1654.16	3.24	1650.92	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/1/2017	1654.16	4.52	1649.64	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1654.16	2.29	1651.87	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1654.16	3.74	1650.42	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2017	1654.16	5.12	1649.04	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1654.16	3.48	1650.68	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1654.16	4.52	1649.64	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1654.16	3.27	1650.89	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-2	11/19/2018	1654.16	2.47	1651.69	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1654.16	2.74	1651.42	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-3	10/19/2016	1653.72	5.40	1648.32	0.00	Characterization	273	140	9.5	3.5	40.5	9.4	140	171	<1.0
	11/30/2016	1653.72	5.03	1648.69	0.00	Characterization	835	494	14.4	7.4	39.8	10.8	310	227	<5.0
	2/22/2017	1653.72	4.66	1649.06	0.00	Characterization	349	412	17.0	<5.0	50.5	19.5	275	250	<5.0
	5/2/2017	1653.72	5.07	1648.65	0.00	Characterization	612	659	27.2	<5.0	43.2	21.0	439	429	<5.0
	7/25/2017	1653.72	4.77	1648.95	0.00	Characterization	68.8	48.4	2.3	34.4	3.4	5.7	7.4	12.9	<1.0
	11/3/2017	1653.72	5.25	1648.47	0.00	Characterization	516	422	18.5	23.1	55.0	125	286	195	<1.0
	12/5/2017	1653.72	5.28	1648.44	0.00	Characterization	756	543	25.7	8.3	52.6	389	324	324	<1.0
	3/21/2018	1653.72	4.74	1648.98	0.00	Characterization	246	265	10.8	<5.0	21.1	24.2	151	161	<5.0
	6/8/2018	1653.72	5.22	1648.50	0.00	Characterization	643	625	50.2	8.8	77.8	89.8	565	336	<5.0
	9/11/2018	1653.72	4.51	1649.21	0.00	Characterization	99.8	119	7.7	9.4	<10.0	10.0	25.8	29.6	<5.0
MW-3	11/20/2018	1653.72	4.58	1649.14	0.00	Characterization	61.8	158	11.8	<5.0	<10.0	9.0	<15.0	57.6	<5.0
	2/19/2019	1653.72	4.58	1649.14	0.00	Characterization	30.2	91.6	10.2	<5.0	11.5	8.5	35.3	90.0	<5.0
MW-3	10/19/2016	1652.92	5.20	1647.72	0.00	Characterization	180	295	30.6	7.7	29.1	4.1	3.6	7.9	<1.0
	11/30/2016	1652.92	4.57	1648.35	0.00	Characterization	110	296	18.4	10.5	20.3	<5.0	<15.0	7.9	<5.0
	2/22/2017	1652.92	3.45	1649.47	0.00	Characterization	96.8	287	16.4	6.8	27.9	10.5	57.7	26.7	<5.0
	5/2/2017	1652.92	4.54	1648.38	0.00	Characterization	122	374	23.0	<5.0	21.8	9.5	69.1	57.6	<5.0
	7/25/2017	1652.92	4.21	1648.71	0.00	Characterization	35.9	105	7.2	<1.0	2.3	<1.0	<3.0	<1.0	<1.0
	11/3/2017	1652.92	4.52	1648.40	0.00	Characterization	44.3	57.6	14.0	<1.0	<2.0	1.3	<3.0	<1.0	<1.0
	12/5/2017	1652.92	4.79	1648.13	0.00	Characterization	45.2	73.6	13.3	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1652.92	4.45	1648.47	0.00	Characterization	38.1	117	8.5	12.5	<2.0	3.6	7.9	<1.0	<1.0
	6/8/2018	1652.92	4.64	1648.28	0.00	Characterization	48.4	83.1	14.0	<1.0	5.4	3.0	<3.0	2.3	<1.0
	9/11/2018	1652.92	4.18	1648.74	0.00	Characterization	17.5	15.6	5.4	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-3	11/20/2018	1652.92	4.32	1648.60	0.00	Characterization	11.8	14.0	2.9	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1652.92	4.39	1648.53	0.00	Characterization	38.0	76.7	11.2	<1.0	<2.0	2.5	<3.0	<1.0	<1.0

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

Notes:
1.) Screened Interval and Total Depth measurements from grade
2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

NS Not Sampled
NA Not Applicable
E Estimated Value

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-4 Screened Interval: 3.35' - 15.35' Total Depth: 15.35'	10/19/2016	1651.31	4.20	1647.11	0.00	Characterization	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	1651.31	3.40	1647.91	0.00	Characterization	214	176	25.1	4.9	14.3	17.5	50.6	25.8	<1.0
	2/22/2017	1651.31	3.40	1647.91	0.00	Characterization	282	179	20.4	<5.0	10.6	23.2	56.0	20.6	<5.0
	5/2/2017	1651.31	3.47	1647.84	0.00	Characterization	268	176	18.6	5.8	17.7	17.8	55.0	14.4	<5.0
	7/25/2017	1651.31	3.11	1648.20	0.00	Characterization	320	251	32.6	<5.0	16.6	21.0	55.0	27.1	<5.0
	11/3/2017	1651.31	3.51	1647.80	0.00	Characterization	267	176	20.8	<5.0	14.2	25.0	84.5	22.3	<5.0
	12/5/2017	1651.31	3.80	1647.51	0.00	Characterization	534	197	25.4	<5.0	26.0	42.6	108.0	17.5	<5.0
	3/21/2018	1651.31	3.32	1647.99	0.00	Characterization	324	180	23.8	<5.0	22.8	26.8	74.7	25.5	<5.0
	6/8/2018	1651.31	3.67	1647.64	0.00	Characterization	317	280	25.2	<5.0	13.7	36.8	65.0	28.3	<5.0
	9/11/2018	1651.31	3.08	1648.23	0.00	Characterization	163	132	24.6	<5.0	18.9	14.6	37.4	16.2	<5.0
MW-5 Screened Interval: 3.32' - 20.32' Total Depth: 20.32'	10/19/2016	1652.33	4.64	1647.69	0.00	Characterization	173	104	9.6	26.4	70.3	7.7	57.2	132	20.8
	11/30/2016	1652.33	3.38	1648.95	0.00	Characterization	219	288	28.7	24.1	135	9.4	56.6	161	<1.0
	2/22/2017	1652.33	3.30	1649.03	0.00	Characterization	116	196	21.9	12.4	53.0	5.4	53.2	126	<1.0
	5/2/2017	1652.33	3.31	1649.02	0.00	Characterization	133	200	20.0	<5.0	23.0	<5.0	33.9	64.9	<5.0
	7/25/2017	1652.33	3.06	1649.27	0.00	Characterization	144	168	25.8	7.9	27.0	5.1	16.3	34.4	<1.0
	11/3/2017	1652.33	3.36	1648.97	0.00	Characterization	196	223	28.7	14.8	29.1	11.4	33.2	42.5	<1.0
	12/5/2017	1652.33	3.82	1648.51	0.00	Characterization	172	201	26.5	10.6	30.5	9.3	21.6	63.5	<5.0
	3/21/2018	1652.33	3.35	1648.98	0.00	Characterization	102	183	22.4	10.4	40.5	7.2	26.7	62.4	<5.0
	6/8/2018	1652.33	3.55	1648.78	0.00	Characterization	98.8	124	20.9	5.3	<10.0	<5.0	<15.0	18.5	<5.0
	9/11/2018	1652.33	3.11	1649.22	0.00	Characterization	219	181	23.3	16.9	29.0	10.0	<15.0	9.9	<5.0
MW-6 Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	10/19/2016	1653.95	6.18	1647.77	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/30/2016	1653.95	4.63	1649.32	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/22/2017	1653.95	4.21	1649.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/1/2017	1653.95	4.50	1649.45	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1653.95	3.05	1650.90	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1653.95	4.48	1649.47	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2017	1653.95	5.35	1648.60	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1653.95	4.51	1649.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1653.95	4.99	1648.96	0.00	Characterization	1.1	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1653.95	3.94	1650.01	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
NS NA E	11/20/2018	1653.95	4.36	1649.59	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1653.95	4.49	1649.46	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	1.7	<3.0	<1.0	<1.0

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

- Notes:
- 1.) Screened Interval and Total Depth measurements from grade
 - 2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-7 Screened Interval: 3.35' - 15.35' Total Depth: 15.35'	10/19/2016	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1653.00	3.62	1649.38	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/2/2017	1653.00	3.82	1649.18	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1653.00	3.10	1649.90	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/3/2017	1653.00	3.87	1649.13	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1653.00	4.10	1648.90	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1653.00	3.63	1649.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1653.00	3.91	1649.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1653.00	3.24	1649.76	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-8 Screened Interval: 3.32' - 20.32' Total Depth: 20.32'	11/19/2018	1653.00	3.48	1649.52	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1653.00	NM	#VALUE!	0.00	Characterization	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-9 Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1651.75	4.66	1647.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/2/2017	1651.75	4.83	1646.92	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1651.75	3.96	1647.79	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1651.75	5.01	1646.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1651.75	5.28	1646.47	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1651.75	5.28	1646.47	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1651.75	5.03	1646.72	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1651.75	4.30	1647.45	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/20/2018	1651.75	3.92	1647.83	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1651.75	4.35	1647.40	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	2.3	<3.0	<1.0	<1.0

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

1.) Screened Interval and Total Depth measurements from grade

2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Notes:

Not Sampled
Not Applicable
Estimated Value

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

NM
MTBE
1,2,4-TMB
1,3,5-TMB

NS
NA
E

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-10	10/19/2016	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1648.98	5.66	1643.32	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/2/2017	1648.98	5.82	1643.16	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1648.98	4.98	1644.00	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1648.98	5.77	1643.21	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1648.98	6.11	1642.87	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1648.98	5.81	1643.17	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1648.98	6.04	1642.94	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1648.98	5.35	1643.63	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-11	11/19/2018	1648.98	5.53	1643.45	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1648.98	5.70	1643.28	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-12	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/2/2017	1648.39	5.88	1642.51	0.00	Characterization	4.3	<1.0	<1.0	<1.0	<2.0	1.5	<3.0	<1.0	<1.0
	7/25/2017	1648.39	5.07	1643.32	0.00	Characterization	1.3	<1.0	<1.0	<1.0	<2.0	<2.0	<3.0	<1.0	<1.0
	11/2/2017	1648.39	5.81	1642.58	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1648.39	6.12	1642.27	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1648.39	5.64	1642.75	0.00	Characterization	<2.3	<3.4	<2.2	<3.3	4.0J	<2.3	<6.6	3.6J	<2.0
	6/7/2018	1648.39	6.02	1642.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1648.39	5.24	1643.15	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-13	11/19/2018	1648.39	5.61	1642.78	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1648.39	5.78	1642.61	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

Notes:
Shaded values indicate Act 2 Statewide Health Standard exceedances
1.) Screened Interval and Total Depth measurements from grade
2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Note: MW-12 data from 3/21/18 reported to the MDL; all others reported to the RDL

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-13	10/19/2016	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1645.56	3.14	1642.42	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1645.56	2.49	1643.07	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1645.56	3.10	1642.46	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1645.56	3.37	1642.19	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1645.56	2.97	1642.59	0.00	Characterization	<1.2	<1.7	<1.1	<1.7	6.4J	<1.2	<3.3	4.5J	1.7J
	6/7/2018	1645.56	3.19	1642.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1645.56	2.60	1642.96	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/19/2018	1645.56	2.82	1642.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1645.56	2.91	1642.65	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-14	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1647.34	4.25	1643.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1647.34	3.33	1644.01	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1647.34	4.44	1642.90	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1647.34	4.77	1642.57	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1647.34	4.25	1643.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1647.34	4.71	1642.63	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1647.34	3.93	1643.41	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/19/2018	1647.34	4.18	1643.16	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1647.34	4.20	1643.14	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-15	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/25/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2017	1654.07	4.47	1649.60	0.00	Characterization	552	1240	176	<5.0	179	2420	3950	967	172
	12/5/2017	1654.07	5.11	1648.96	0.00	Characterization	458	1170	186	<5.0	139	1730	3150	990	157
	3/20/2018	1654.07	3.67	1650.40	0.00	Characterization	50.0	440	75.1	<5.0	39.7	137	360	705	<5.0
	6/8/2018	1654.07	4.63	1649.44	0.00	Characterization	94.4	405	90.5	<5.0	54.4	71.8	288	746	76.6
	9/11/2018	1654.07	3.65	1650.42	0.00	Characterization	52.6	343	72.4	<5.0	17.6	32.9	152	315	<5.0
	11/20/2018	1654.07	3.92	1650.15	0.00	Characterization	51.3	297	64.4	<5.0	<10.0	41.1	166	222	<5.0
	2/19/2019	1654.07	3.90	1650.17	0.00	Characterization	42.3	276	77.2	<5.0	15.6	60.8	202	279	<5.0

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l settling

Shaded values indicate Act 2 Statewide Health Standard exceedances

1.) Screened Interval and Total Depth measurements from grade

2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Note: MW-13 data from 3/21/18 reported to the MDL; all others reported to the RDL

Notes:

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

Not Sampled
Not Applicable
Estimated Value

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
OW-1 Screened Interval: 3.80' - 13.35' Total Depth: 13.35'	10/19/2016	1653.44	5.74	1647.70	0.00	Characterization	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	1653.44	4.50	1648.94	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/22/2017	1653.44	3.38	1650.06	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/1/2017	1653.44	4.44	1649.00	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1653.44	4.18	1649.26	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1653.44	4.49	1648.95	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1653.44	4.96	1648.48	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1653.44	4.56	1648.88	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1653.44	4.70	1648.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1653.44	4.23	1649.21	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
OW-2 Screened Interval: 3.84' - 12.59' Total Depth: 12.59'	11/20/2018	1653.44	4.32	1649.12	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1653.44	3.37	1650.07	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
OW-2 Screened Interval: 3.84' - 12.59' Total Depth: 12.59'	10/19/2016	1652.39	4.70	1647.69	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/30/2016	1652.39	3.44	1648.95	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/22/2017	1652.39	4.42	1647.97	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/1/2017	1652.39	3.39	1649.00	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1652.39	3.13	1649.26	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1652.39	3.41	1648.98	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1652.39	3.88	1648.51	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1652.39	3.50	1648.89	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1652.39	3.64	1648.75	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1652.39	3.15	1649.24	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
OW-2 Screened Interval: 3.84' - 12.59' Total Depth: 12.59'	11/20/2018	1652.39	3.28	1649.11	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1652.39	3.30	1649.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0

NM
MTBE
1,2,4-TMB
1,3,5-TMB

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

NS
NA
E

Not Sampled
Not Applicable
Estimated Value

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

Notes:
1.) Screened Interval and Total Depth measurements from grade
2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
OW-3	NA	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1650.70	4.03	1646.67	0.00	Characterization	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/24/2017	1650.70	3.56	1647.14	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	1.3	3.8	<1.0	<1.0
	11/2/2017	1650.70	4.26	1646.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	5.0	<1.0	<1.0
	12/4/2017	1650.70	4.39	1646.31	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1650.70	4.20	1646.50	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1650.70	4.33	1646.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1650.70	3.23	1647.47	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1650.70	4.13	1646.57	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
OW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1649.74	3.63	1646.11	0.00	Characterization	168	827	32.4	3.4	82.5	4800	5260	816	166
	7/24/2017	1649.74	3.14	1646.60	0.00	Characterization	43.9	601	64.2	1.4	140	1360	11100	2340	763
	11/2/2017	1649.74	3.82	1645.92	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	3.2	1.9	<1.0
	12/4/2017	1649.74	3.96	1645.78	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1649.74	3.75	1645.99	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1649.74	3.90	1645.84	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1649.74	3.67	1646.07	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1649.74	4.30	1645.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	1.9	<3.0	<1.0	<1.0
NM MTBE 1,2,4-TMB 1,3,5-TMB NS NA E	Not Measured														
	Methyl Tert Butyl Ether														
	1,2,4-Trimethylbenzene														
	1,3,5-Trimethylbenzene														
	Not Sampled														

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

- Notes:
- 1.) Screened Interval and Total Depth measurements from grade
 - 2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
RW-1	NA	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1651.54	8.67	1642.87	0.00	Characterization	43.6	17.5	1.5	2.1	7.6	67.2	231	53.5	20.7
	7/24/2017	1651.54	8.59	1642.95	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1651.54	8.78	1642.76	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	1.6	<1.0
	12/4/2017	1651.54	8.95	1642.59	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	1.5	<1.0
	3/20/2018	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/7/2018	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2018	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well Damaged Sometime Prior to March 2018 Sampling Event. Well No Longer Useable	11/19/2018	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/18/2019	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
NM	Not Measured														
MTBE	Methyl Tert Butyl Ether														
1,2,4-TMB	1,2,4-Trimethylbenzene														
1,3,5-TMB	1,3,5-Trimethylbenzene														
NS	Not Sampled														
NA	Not Applicable														
E	Estimated Value														

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

1.) Screened Interval and Total Depth measurements from grade

2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Notes:

Table H-2
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Intrinsic Groundwater Data
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	D.O. (mg/L)	O.R.P. (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Manganese (mg/L)	Nitrate (mg/L)
MW-1	10/19/2016	1654.16	15.22	1638.94	0.00	Characterization	7.62	-18.0	NM	NM	NM	NM
	11/30/2016	1654.16	4.51	1649.65	0.00	Characterization	5.39	-60.0	NM	NM	NM	NM
	2/22/2017	1654.16	3.24	1650.92	0.00	Characterization	6.42	-65.0	0.00	>80	1.0	5.4
	5/12/2017	1654.16	4.52	1649.64	0.00	Characterization	5.49	239.0	0.30	>80	0.1	7.2
	7/24/2017	1654.16	2.29	1651.87	0.00	Characterization	4.31	204.0	NS	NS	NS	NS
	11/2/2017	1654.16	3.74	1650.42	0.00	Characterization	5.62	137.0	0.16	>80	0.4	0.8
	12/5/2017	1654.16	5.12	1649.04	0.00	Characterization	6.45	280.0	0.03	73.0	1.4	9.1
	3/20/2018	1654.16	3.48	1650.68	0.00	Characterization	6.13	-30.0	NS	NS	NS	NS
	6/8/2018	1654.16	4.52	1649.64	0.00	Characterization	5.95	-4.0	0.13	>80	2.5	9.0
	9/11/2018	1654.16	3.27	1650.89	0.00	Characterization	4.81	120.0	NS	NS	NS	NS
MW-2	11/19/2018	1654.16	2.47	1651.69	0.00	Characterization	5.01	217.0	0.00	62.0	0.6	0.0
	2/19/2019	1654.16	2.74	1651.42	0.00	Characterization	3.16	-119.0	NS	NS	NS	NS
MW-3	10/19/2016	1652.92	5.20	1647.72	0.00	Characterization	0.39	-69.0	>3.30	8.0	>22.0	0.0
	11/30/2016	1652.92	4.57	1648.35	0.00	Characterization	0.37	-79.0	>3.30	0.0	>22.0	0.0
	2/22/2017	1652.92	3.45	1649.47	0.00	Characterization	0.28	-87.00	3.25	0.00	>22.0	2.4
	5/2/2017	1652.92	4.54	1648.38	0.00	Characterization	0.30	-83.0	>3.30	0.0	>22.0	2.1
	7/25/2017	1652.92	4.21	1648.71	0.00	Characterization	0.28	-108.0	2.43	0.0	7.8	1.4
	11/3/2017	1652.92	4.52	1648.40	0.00	Characterization	0.35	-116.0	3.28	0.0	8.3	1.5
	12/5/2017	1652.92	4.79	1648.13	0.00	Characterization	0.35	-109.0	>3.30	1.0	11.7	1.4
	3/21/2018	1652.92	4.45	1648.47	0.00	Characterization	0.08	-83.0	NS	NS	NS	NS
	6/8/2018	1652.92	4.64	1648.28	0.00	Characterization	0.00	-68.0	>3.30	3.0	9.3	6.4
	9/11/2018	1652.92	4.16	1648.74	0.00	Characterization	0.29	-90.0	2.39	4.0	8.7	8.6
MW-4	11/20/2018	1652.92	4.32	1648.60	0.00	Characterization	0.52	-94.0	3.12	0.0	3.0	3.8
	2/19/2019	1652.92	4.39	1648.53	0.00	Characterization	0.00	-118.0	NS	NS	NS	NS

NM Not Measured
NS Not Sampled
NA Not Applicable
E Estimated Value

Table H-2
 Site Characterization Activities
 Pump-n-Pantry #001 Property
 Summary of Intrinsic Groundwater Data
 Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	D.O. (mg/L)	O.R.P. (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Manganese (mg/L)	Nitrate (mg/L)
MW-4 Screened Interval: 3.35' - 15.35' Total Depth: 15.35'	10/19/2016	1651.31	4.20	1647.11	0.00	Characterization	0.44	-88.0	>3.30	7.0	15.7	0.0
	11/30/2016	1651.31	3.40	1647.91	0.00	Characterization	0.49	-93.0	>3.30	41.0	17.2	1.9
	2/22/2017	1651.31	3.40	1647.91	0.00	Characterization	0.31	-110.0	>3.30	23.0	>22.0	6.2
	5/2/2017	1651.31	3.47	1647.84	0.00	Characterization	0.31	-103.0	>3.30	0.0	18.5	2.5
	7/25/2017	1651.31	3.11	1648.20	0.00	Characterization	0.27	-128.0	>3.30	0.0	12.8	1.2
	11/3/2017	1651.31	3.51	1647.80	0.00	Characterization	0.40	-107.0	2.19	0.0	5.6	1.0
	12/5/2017	1651.31	3.80	1647.51	0.00	Characterization	0.37	-125.0	>3.30	0.0	9.3	1.0
	3/21/2018	1651.31	3.32	1647.99	0.00	Characterization	0.13	-115.0	NS	NS	NS	NS
	6/8/2018	1651.31	3.67	1647.64	0.00	Characterization	0.10	-114.0	>3.30	2.0	12.2	4.2
	9/11/2018	1651.31	3.08	1648.23	0.00	Characterization	0.53	-110.0	>3.30	1.0	7.1	2.2
MW-5 Screened Interval: 3.32' - 20.32' Total Depth: 20.32'	11/20/2018	1651.31	3.21	1648.10	0.00	Characterization	0.60	-127.0	3.16	0.0	9.0	4.2
	2/19/2019	1651.31	3.36	1647.95	0.00	Characterization	0.00	-167.0	NS	NS	NS	NS
MW-6 Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	10/19/2016	1653.95	6.18	1647.77	0.00	Characterization	0.91	172.0	0.01	39.0	3.1	1.8
	11/30/2016	1653.95	4.63	1649.32	0.00	Characterization	3.61	211.0	0.01	13.0	0.8	5.0
	2/22/2017	1653.95	4.21	1649.74	0.00	Characterization	5.41	248.0	0.40	21.0	0.4	3.3
	5/1/2017	1653.95	4.50	1649.45	0.00	Characterization	3.24	208.0	0.00	9.0	0.8	3.1
	7/25/2017	1653.95	3.05	1650.90	0.00	Characterization	3.67	232.0	0.08	17.0	0.4	2.1
	11/2/2017	1653.95	4.48	1649.47	0.00	Characterization	2.37	153.0	0.01	13.0	0.3	2.6
	12/5/2017	1653.95	5.35	1648.60	0.00	Characterization	2.93	271.0	0.04	9.0	0.4	1.2
	3/21/2018	1653.95	4.51	1649.44	0.00	Characterization	2.63	-108.0	NS	NS	NS	NS
	6/8/2018	1653.95	4.99	1648.96	0.00	Characterization	3.05	70.0	0.06	NS	0.2	18.4
	9/11/2018	1653.95	3.94	1650.01	0.00	Characterization	1.06	73.0	0.18	>70	1.1	0.9
MW-6 Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	11/20/2018	1653.95	4.36	1649.59	0.00	Characterization	3.54	192.0	0.13	22.0	0.9	1.8
	2/19/2019	1653.95	4.49	1649.46	0.00	Characterization	0.00	187.0	>3.00	27.0	15.2	2.8

NM Not Measured
 NS Not Sampled
 NA Not Applicable
 E Estimated Value

Table H-2
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Intrinsic Groundwater Data
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	D.O. (mg/L)	O.R.P. (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Manganese (mg/L)	Nitrate (mg/L)
MW-7 Screened Interval: 3.35' - 15.35' Total Depth: 15.35'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1653.00	3.62	1649.38	0.00	Characterization	0.57	94.0	0.10	12.0	3.5	0.0
	5/2/2017	1653.00	3.82	1649.18	0.00	Characterization	0.56	41.0	0.25	9.0	2.9	0.0
	7/25/2017	1653.00	3.10	1649.90	0.00	Characterization	0.33	147.0	NS	NS	NS	NS
	11/3/2017	1653.00	3.87	1649.13	0.00	Characterization	0.54	256.0	0.08	20.0	2.7	0.7
	12/4/2017	1653.00	4.10	1648.90	0.00	Characterization	0.62	220.0	NS	NS	NS	NS
	3/20/2018	1653.00	3.63	1649.37	0.00	Characterization	0.00	127.0	0.2	2.6	24.0	0.16
	6/7/2018	1653.00	3.91	1649.09	0.00	Characterization	0.00	100.0	NS	NS	NS	NS
	9/11/2018	1653.00	3.24	1649.76	0.00	Characterization	0.32	108.0	NS	NS	NS	NS
	11/19/2018	1653.00	3.48	1649.52	0.00	Characterization	0.86	134.0	0.3	14.0	4.2	5.10
	2/18/2019	1653.00	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS
MW-8 Screened Interval: 3.32' - 20.32' Total Depth: 20.32'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1653.13	4.46	1648.67	0.00	Characterization	1.86	121.0	0.34	12.0	1.0	0.0
	5/2/2017	1653.13	4.43	1648.70	0.00	Characterization	1.95	35.0	0.10	19.0	0.2	0.2
	7/24/2017	1653.13	3.81	1649.32	0.00	Characterization	1.45	144.0	0.13	13.0	0.5	0.0
	11/2/2017	1653.13	4.83	1648.30	0.00	Characterization	0.47	196.0	0.00	14.0	1.6	0.8
	12/4/2017	1653.13	5.11	1648.02	0.00	Characterization	0.56	205.0	0.05	15.0	1.7	2.5
	3/20/2018	1653.13	4.51	1648.62	0.00	Characterization	0.92	79.0	NS	NS	NS	NS
	6/7/2018	1653.13	4.77	1648.36	0.00	Characterization	0.45	136.0	NS	NS	NS	NS
	9/10/2018	1653.13	4.26	1648.87	0.00	Characterization	0.89	152.0	0.03	15.0	3.3	3.4
	11/20/2018	1653.13	3.88	1649.25	0.00	Characterization	0.96	117.0	0.10	14.0	1.1	5.3
	2/18/2019	1653.13	4.38	1648.75	0.00	Characterization	0.00	129.0	0.00	13.0	0.7	2.3
MW-9 Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1651.75	4.66	1647.09	0.00	Characterization	1.85	177.0	0.39	9.0	2.2	0.0
	5/2/2017	1651.75	4.83	1646.92	0.00	Characterization	2.09	88.0	0.27	9.0	0.1	0.0
	7/24/2017	1651.75	3.96	1647.79	0.00	Characterization	1.34	190.0	0.90	8.0	0.4	0.0
	11/2/2017	1651.75	5.01	1646.74	0.00	Characterization	0.40	166.0	0.01	12.0	0.7	0.8
	12/4/2017	1651.75	5.28	1646.47	0.00	Characterization	0.67	245.0	NS	NS	NS	NS
	3/20/2018	1651.75	4.57	1647.18	0.00	Characterization	1.19	69.0	NS	NS	NS	NS
	6/7/2018	1651.75	5.03	1646.72	0.00	Characterization	1.06	162.0	NS	NS	NS	NS
	9/10/2018	1651.75	4.30	1647.45	0.00	Characterization	0.92	154.0	NS	NS	NS	NS
	11/20/2018	1651.75	3.92	1647.83	0.00	Characterization	1.25	168.0	NS	NS	NS	NS
	2/18/2019	1651.75	4.35	1647.40	0.00	Characterization	9.84	228.0	0.05	15.0	1.3	5.1

NM Not Measured
NS Not Sampled
NA Not Applicable
E Estimated Value

Table H-2
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Intrinsic Groundwater Data
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	D.O. (mg/L)	O.R.P. (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Manganese (mg/L)	Nitrate (mg/L)
MW-10 Screened Interval: 3.35' - 15.35' Total Depth: 15.35'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1648.98	5.66	1643.32	0.00	Characterization	0.40	35.0	0.25	>80	15.7	0.0
	5/2/2017	1648.98	5.82	1643.16	0.00	Characterization	0.65	26.0	0.25	70.0	7.5	0.0
	7/25/2017	1648.98	4.98	1644.00	0.00	Characterization	0.34	209.0	0.07	>80	5.7	0.0
	11/2/2017	1648.98	5.77	1643.21	0.00	Characterization	0.33	114.0	0.10	24.0	6.8	0.3
	12/4/2017	1648.98	6.11	1642.87	0.00	Characterization	0.41	45.0	0.40	>80	2.8	0.0
	3/21/2018	1648.98	5.81	1643.17	0.00	Characterization	0.01	29.0	NS	NS	NS	NS
	6/7/2018	1648.98	6.04	1642.94	0.00	Characterization	0.00	71.0	0.50	>80	18.3	0.0
	9/10/2018	1648.98	5.35	1643.63	0.00	Characterization	0.36	125.0	0.07	68.0	7.2	6.3
	11/19/2018	1648.98	5.53	1643.45	0.00	Characterization	0.63	20.0	NS	NS	NS	NS
	2/18/2019	1648.98	5.70	1643.28	0.00	Characterization	0.00	53.0	0.16	71.0	17.8	1.0
MW-11 Screened Interval: 3.32' - 20.32' Total Depth: 20.32'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1650.45	3.91	1646.54	0.00	Characterization	3.70	128.0	0.07	6.0	0.5	0.0
	7/25/2017	1650.45	2.80	1647.65	0.00	Characterization	2.40	102.0	1.18	9.0	13.3	0.6
	11/2/2017	1650.45	3.92	1646.53	0.00	Characterization	1.86	213.0	0.11	11.0	1.3	0.3
	12/4/2017	1650.45	4.18	1646.27	0.00	Characterization	2.48	243.0	NS	NS	NS	NS
	3/21/2018	1650.45	3.99	1646.46	0.00	Characterization	4.43	67.0	NS	NS	NS	NS
	6/7/2018	1650.45	4.20	1646.25	0.00	Characterization	3.33	128.0	0.10	9.0	0.5	0.0
	9/10/2018	1650.45	3.12	1647.33	0.00	Characterization	3.52	111.0	0.28	15.0	2.4	2.5
	11/20/2018	1650.45	3.58	1646.87	0.00	Characterization	5.47	294.0	NS	NS	NS	NS
	2/18/2019	1650.45	3.56	1646.89	0.00	Characterization	0.00	136.0	NS	NS	NS	NS
MW-12 Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/2/2017	1648.39	5.88	1642.51	0.00	Characterization	0.34	-100.0	>3.30	>80	>22.0	0.0
	7/25/2017	1648.39	5.07	1643.32	0.00	Characterization	0.41	-17.0	2.33	32.0	6.8	0.0
	11/2/2017	1648.39	5.81	1642.58	0.00	Characterization	0.34	-43.0	>3.30	32.0	8.4	0.0
	12/4/2017	1648.39	6.12	1642.27	0.00	Characterization	0.37	-59.0	>3.30	29.0	14.0	0.3
	3/21/2018	1648.39	5.64	1642.75	0.00	Characterization	0.22	-12.0	NS	NS	NS	NS
	6/7/2018	1648.39	6.02	1642.37	0.00	Characterization	0.00	-30.0	>3.30	36.0	>22.0	3.3
	9/10/2018	1648.39	5.24	1643.15	0.00	Characterization	0.33	-9.0	>3.00	40.0	12.6	6.2
	11/19/2018	1648.39	5.61	1642.78	0.00	Characterization	0.57	-69.0	2.59	33.0	11.9	0.6
	2/18/2019	1648.39	5.78	1642.61	0.00	Characterization	0.00	-67.0	NS	NS	NS	NS

NM Not Measured
NS Not Sampled
NA Not Applicable
E Estimated Value

Not Measured
Not Sampled
Not Applicable
Estimated Value

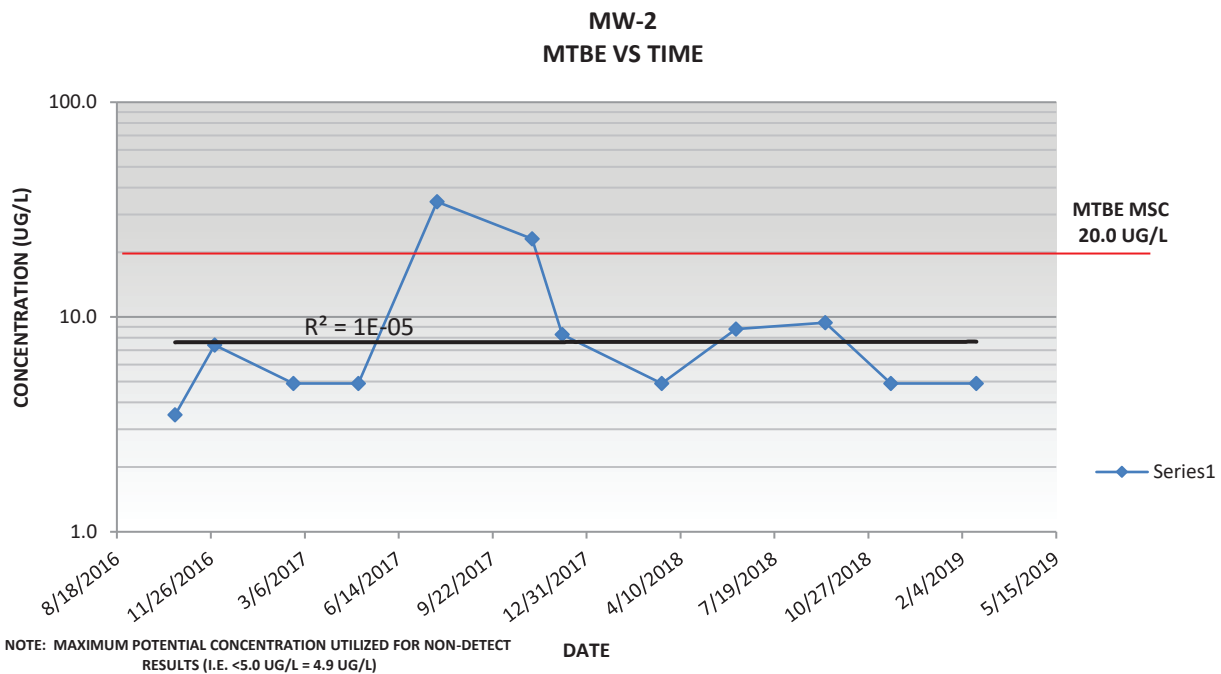
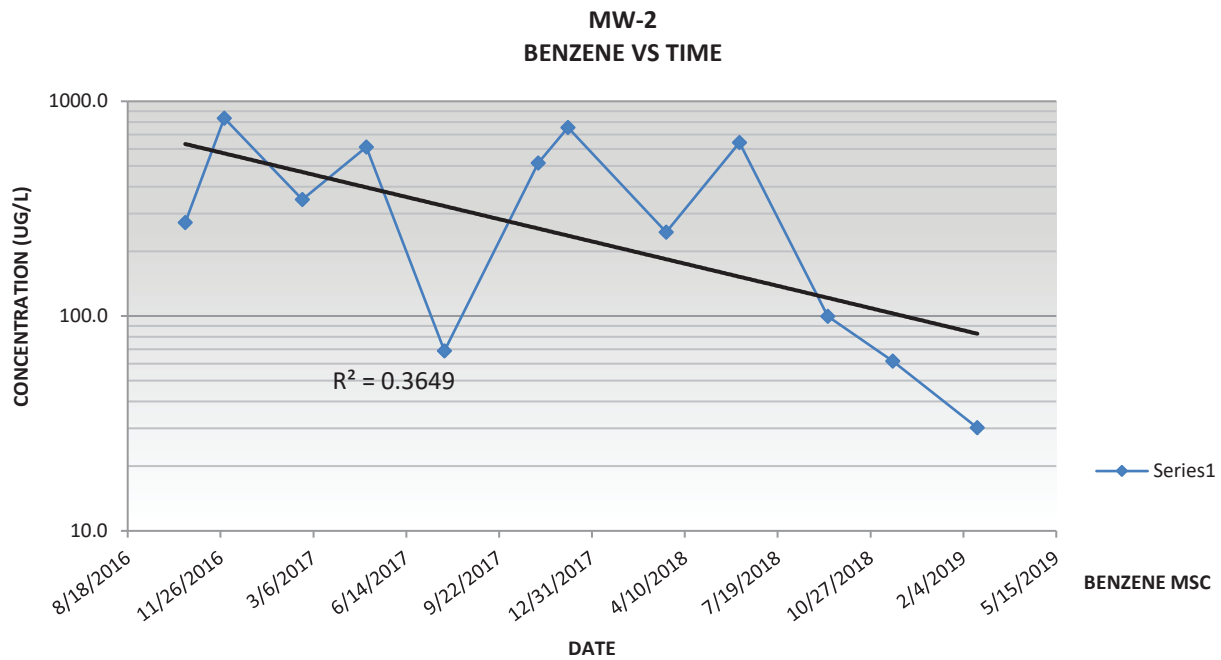
NM NS NA E

ATTACHMENT I

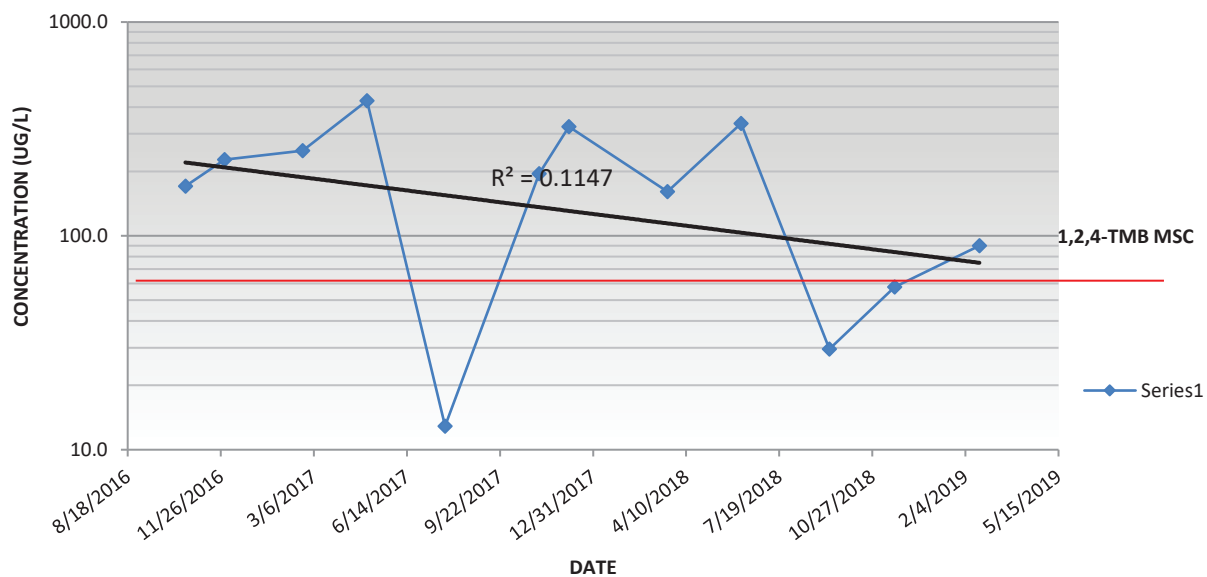
Groundwater Isopleths

ATTACHMENT J

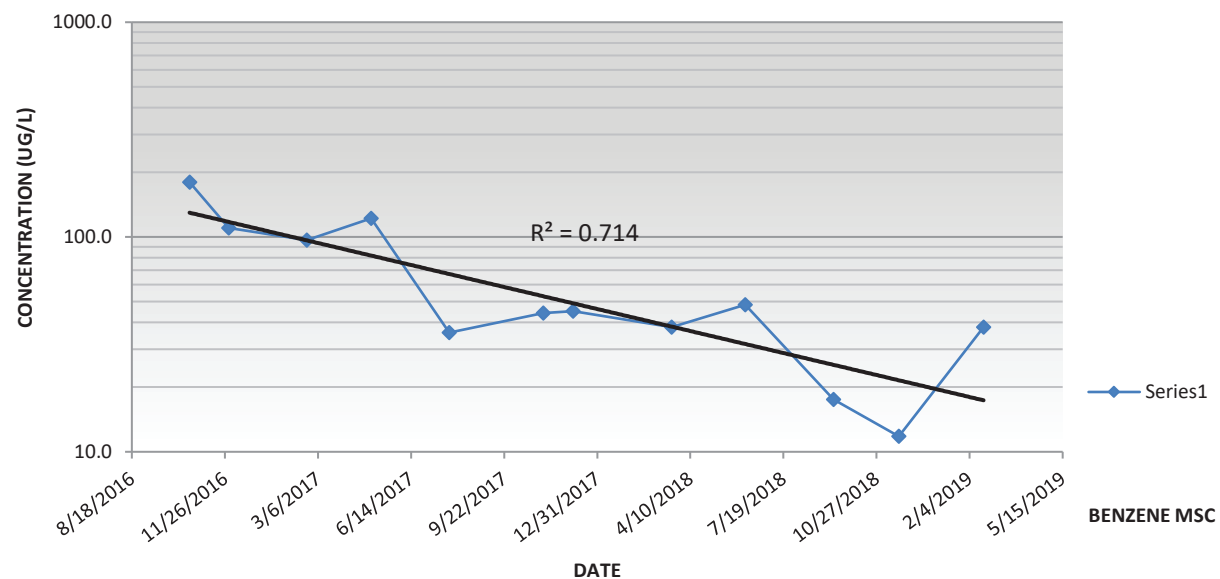
Temporal Trend Analysis



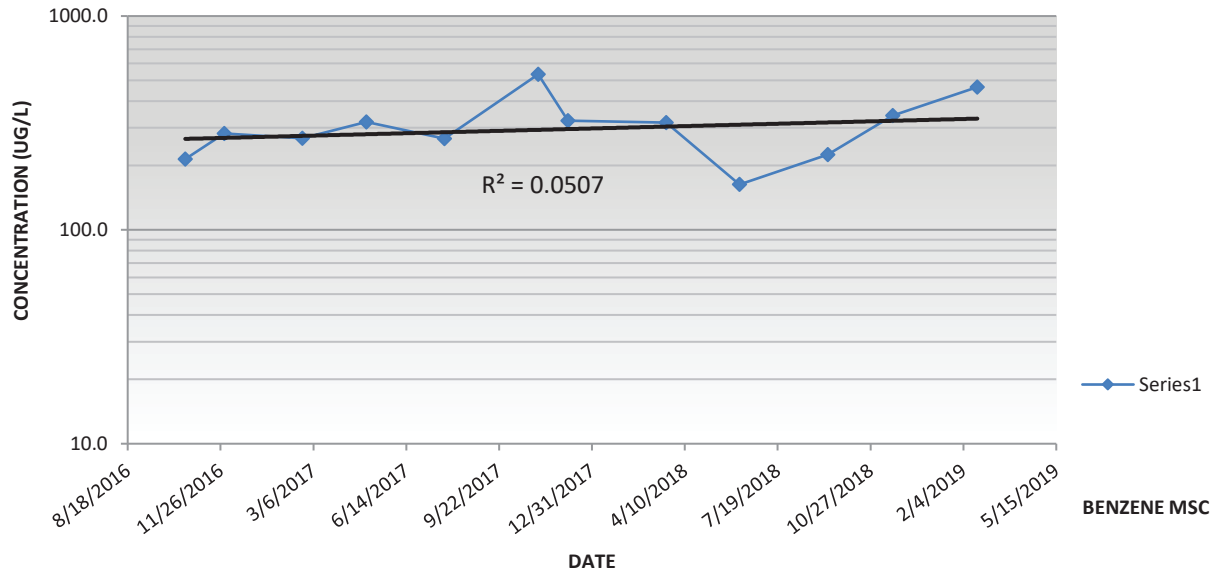
MW-2
1,2,4-TMB VS TIME



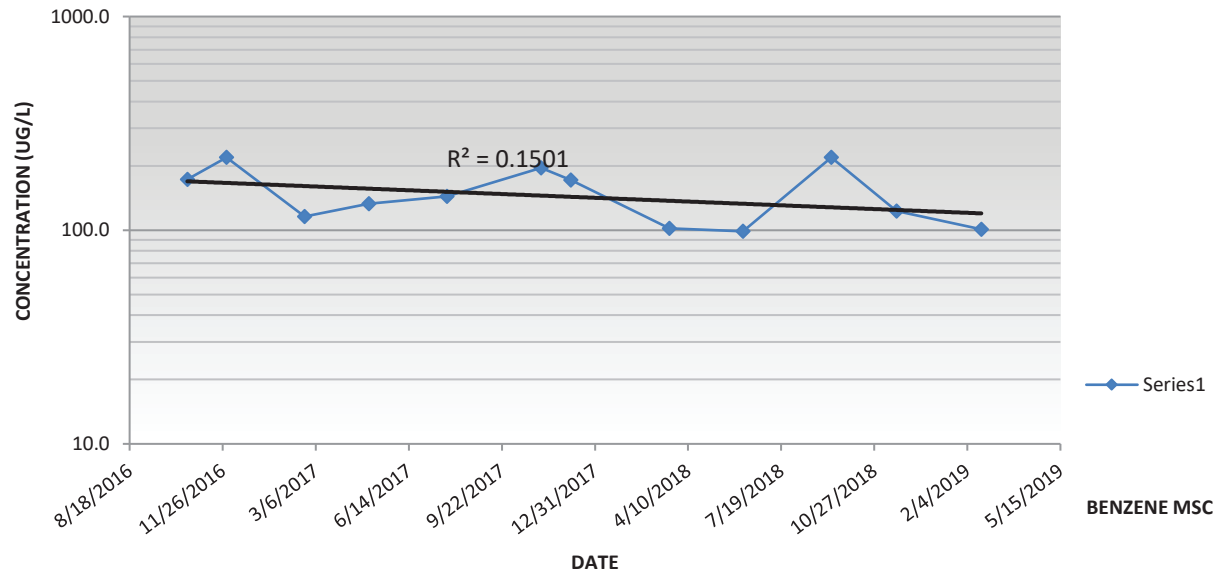
MW-3
BENZENE VS TIME



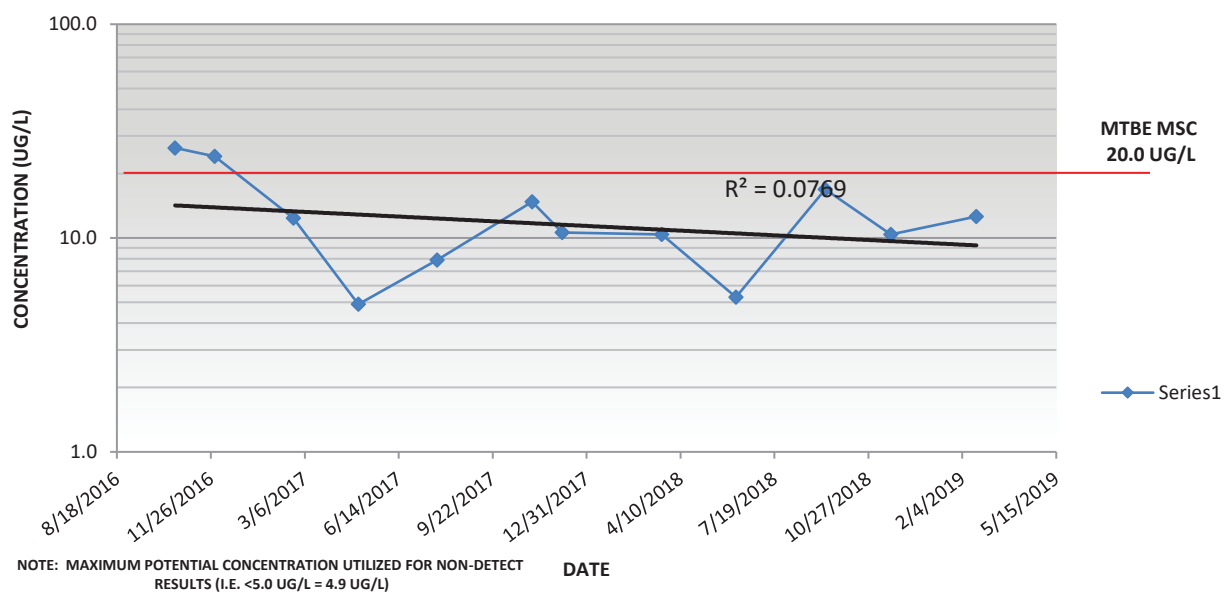
**MW-4
BENZENE VS TIME**



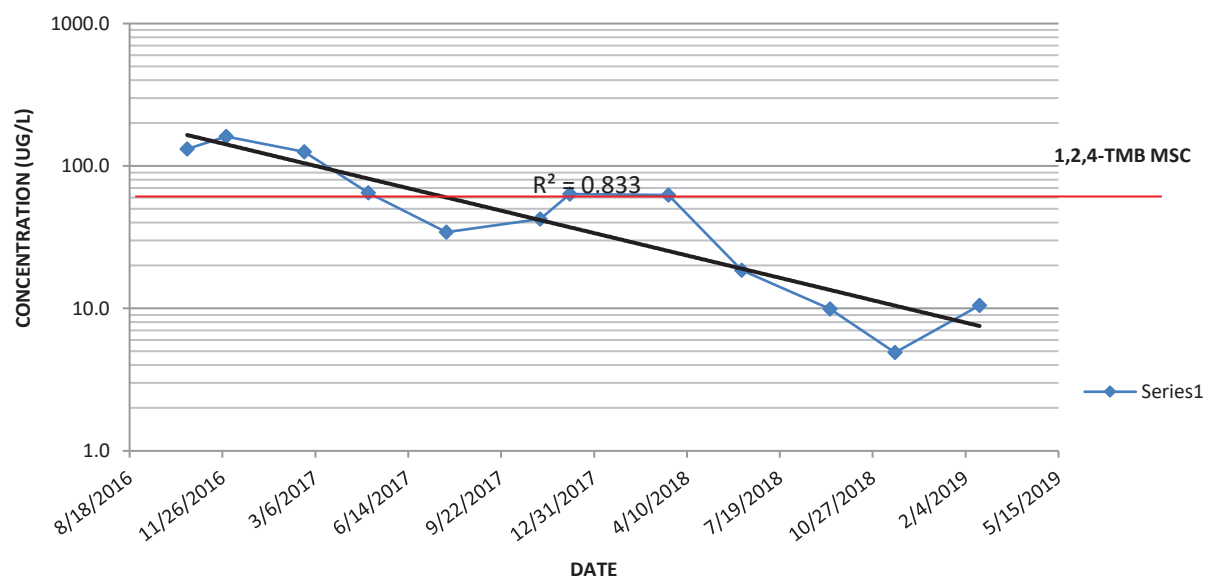
**MW-5
BENZENE VS TIME**



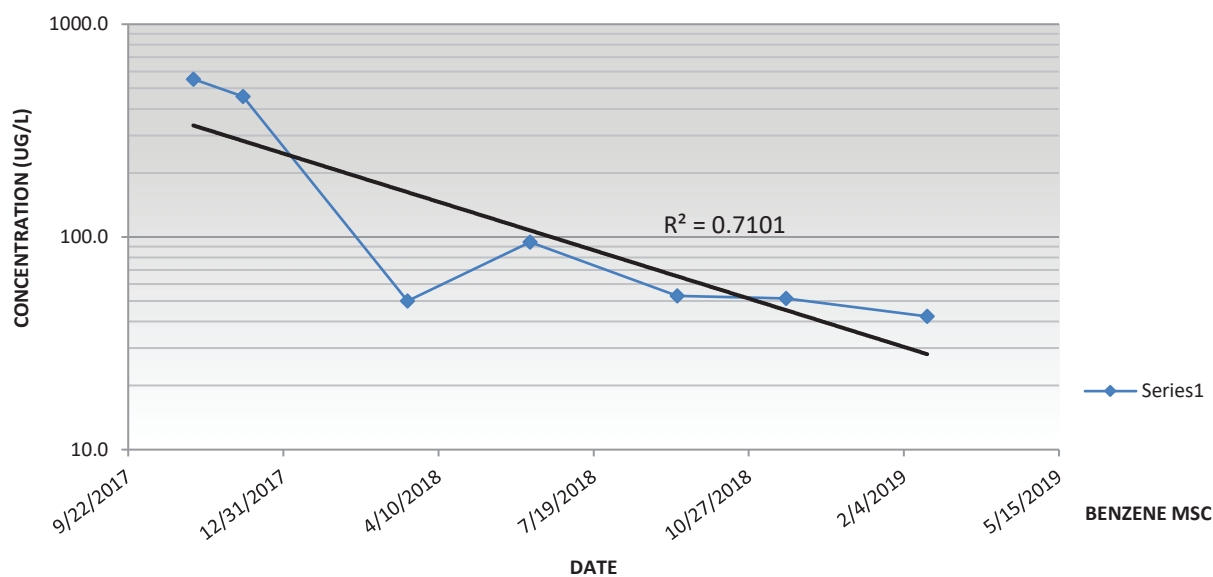
MW-5 MTBE VS TIME



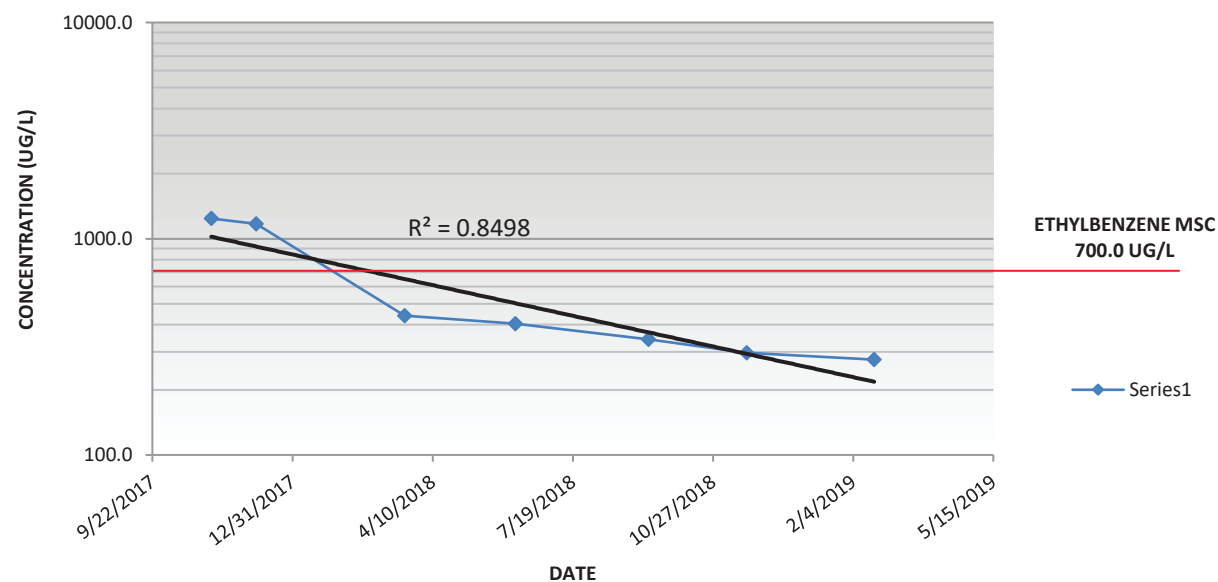
MW-5 1,2,4-TMB VS TIME



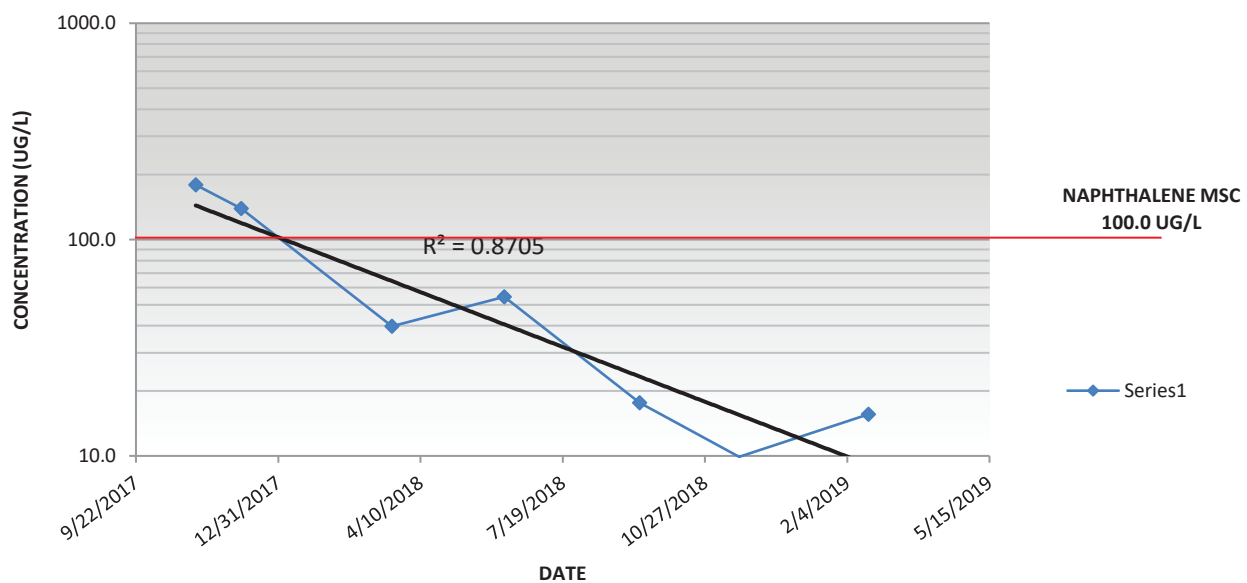
MW-15
BENZENE VS TIME



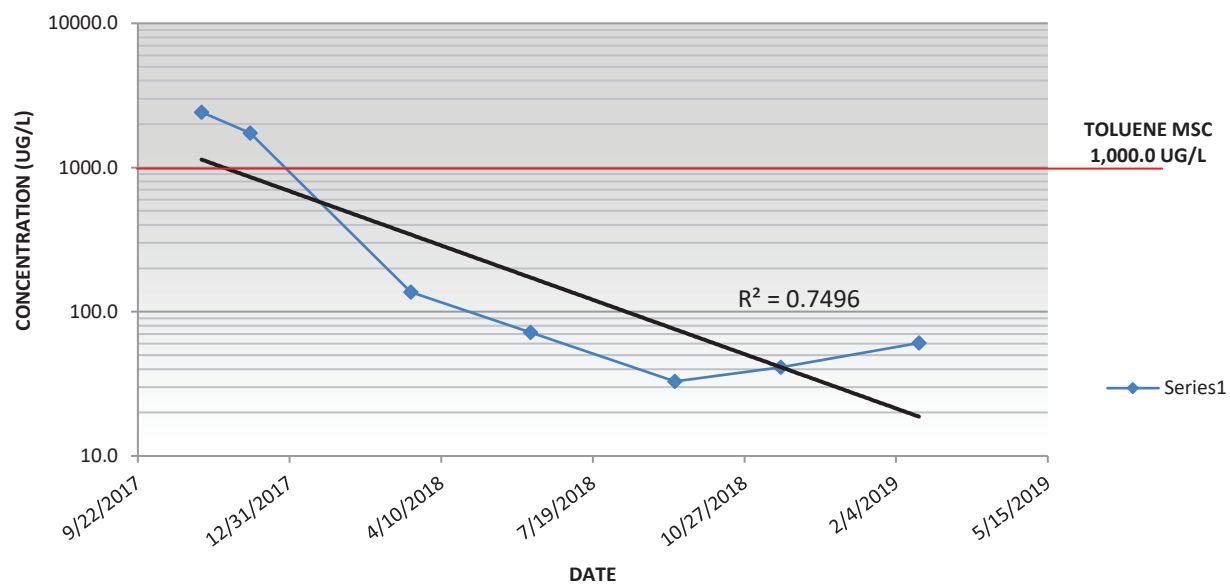
MW-15
ETHYLBENZENE VS TIME



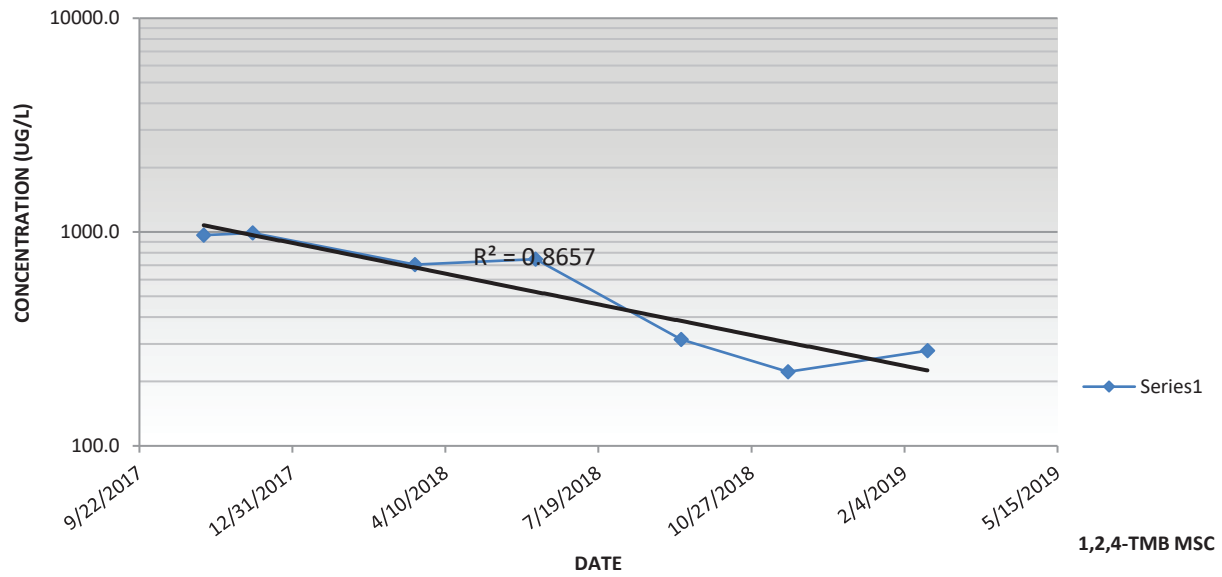
**MW-15
NAPHTHALENE VS TIME**



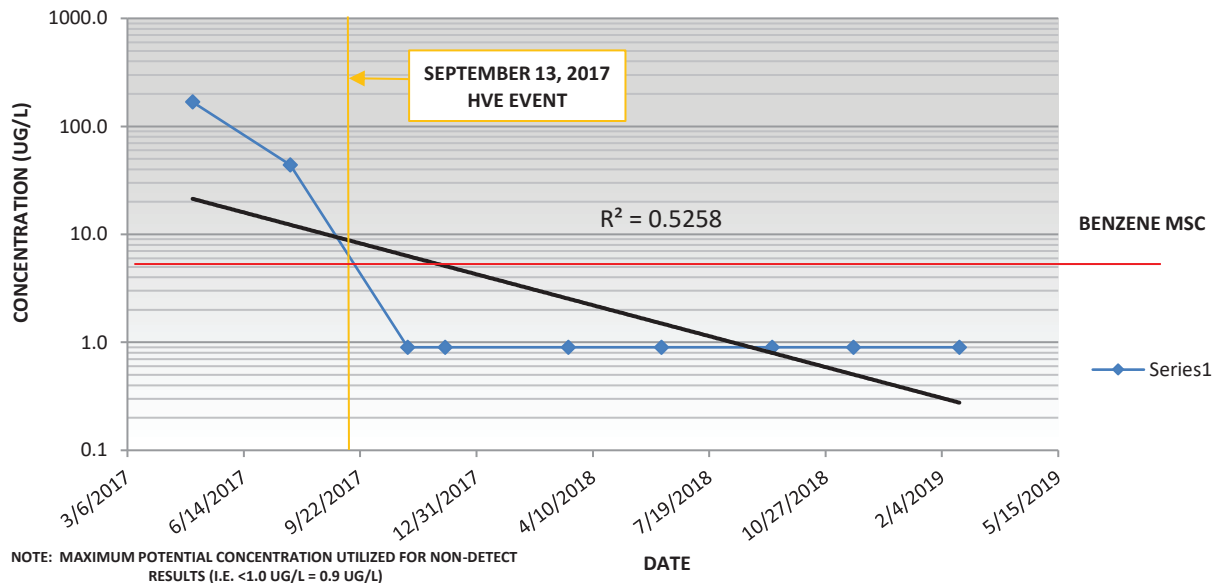
**MW-15
TOLUENE VS TIME**



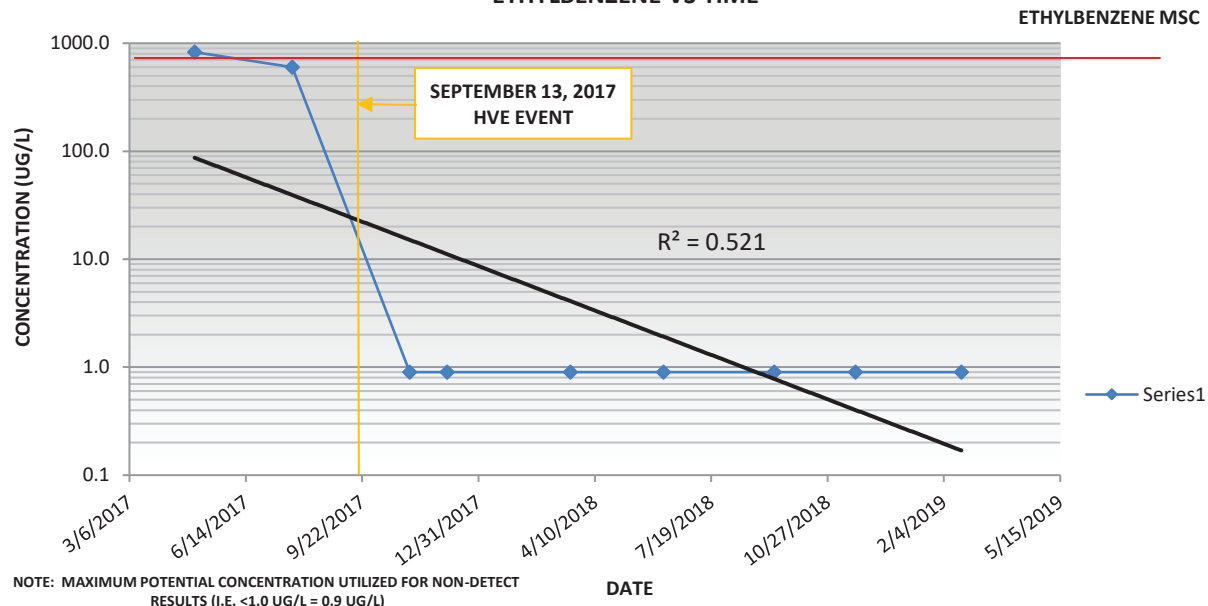
**MW-15
1,2,4-TMB VS TIME**



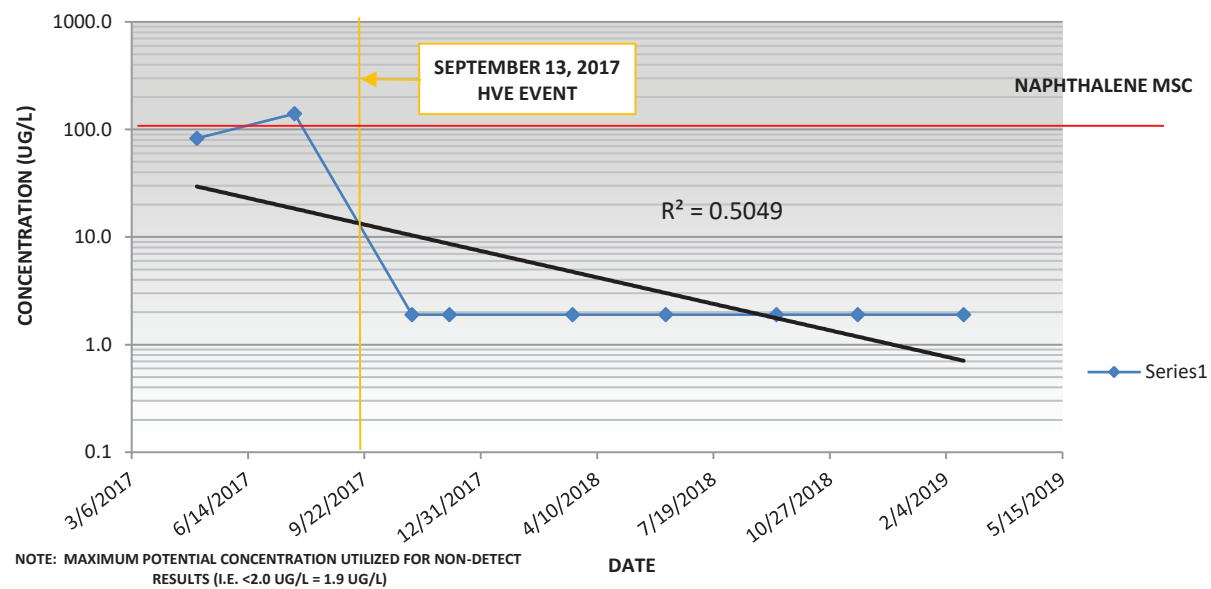
**OW-4
BENZENE VS TIME**



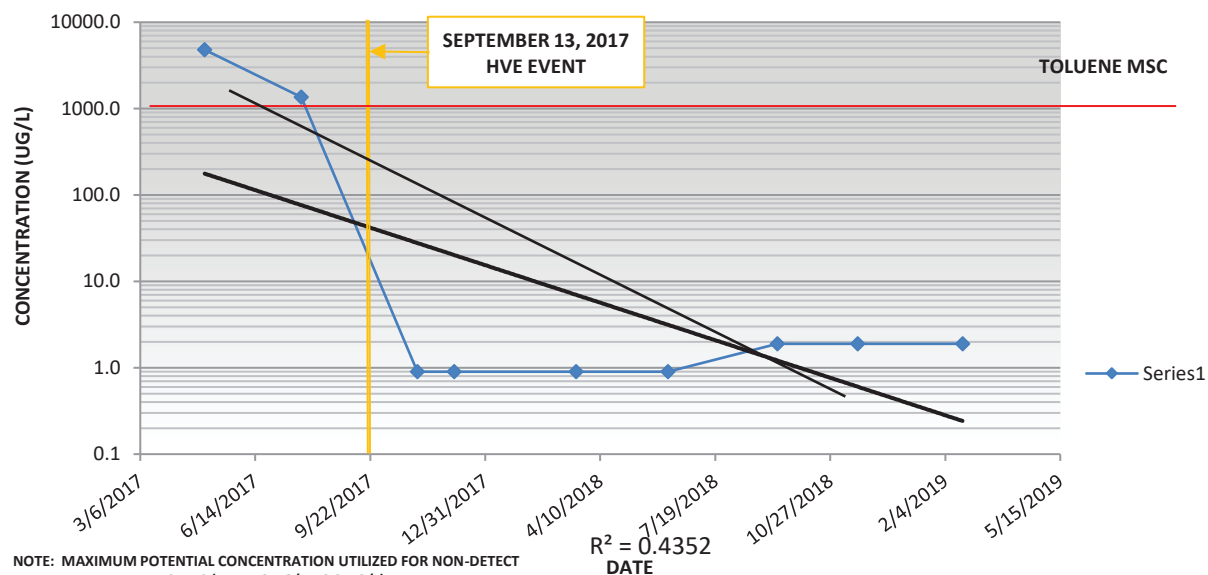
OW-4 ETHYLBENZENE VS TIME



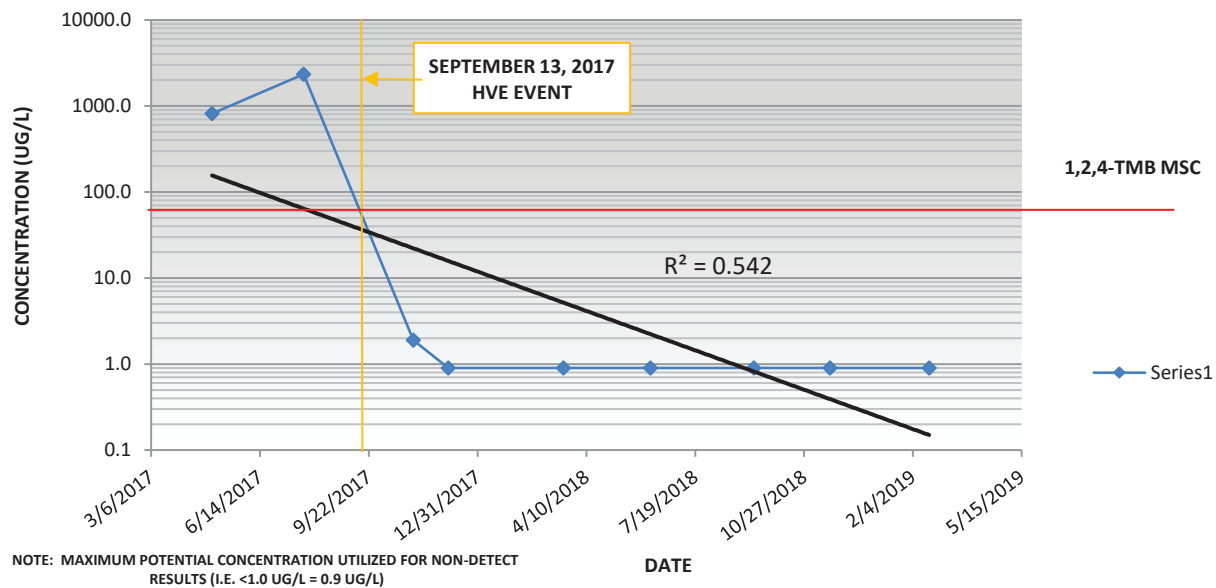
OW-4 NAPHTHALENE VS TIME



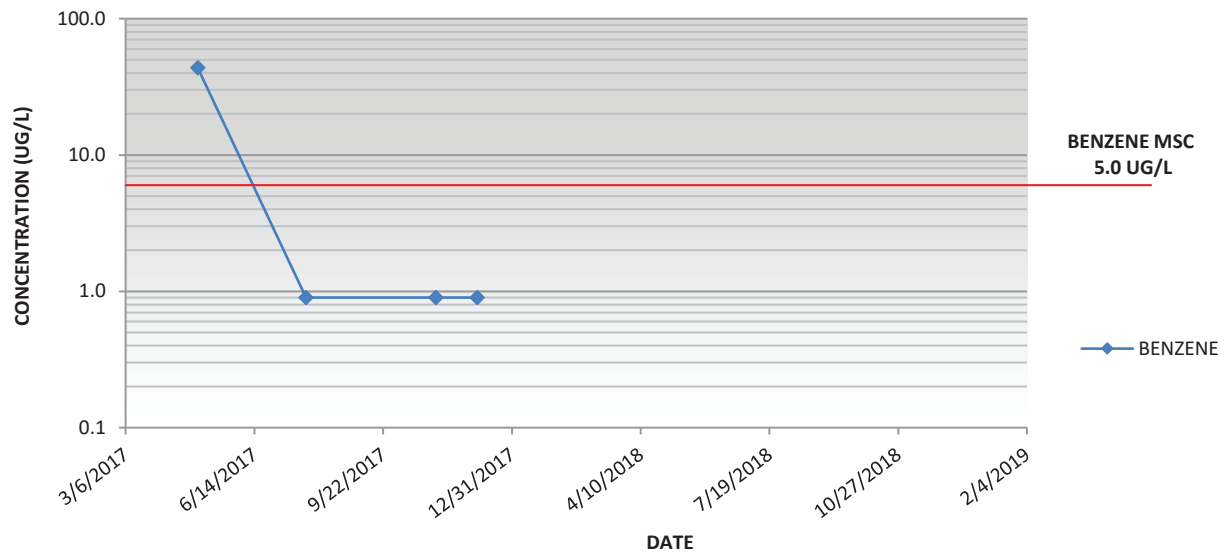
OW-4 TOLUENE VS TIME



OW-4 1,2,4-TMB VS TIME



**RW-1
BENZENE VS TIME**



NOTE: MAXIMUM POTENTIAL CONCENTRATION UTILIZED FOR NON-DETECT
RESULTS (I.E. <1.0 UG/L = 0.9 UG/L)

March 5, 2019

Mr. Tom Coar
Environmental Group Manager
Environmental Cleanup and Brownfields Program
Pennsylvania Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18701-1915

VIA CERTIFIED MAIL #7018 0360 0002 1968 1677

RE: Remedial Action Progress Report:
Pump-n-Pantry #001 Property;
99 Grow Avenue
Bridgewater Township, Susquehanna County, Pennsylvania
PADEP Facility ID#58-13092
PADEP Incident ID Numbers #48572 & #50143
USTIF Claim Numbers #2015-0126(I) & #2017-0021
LaBella Associates Project Numbers: 2171845 & 2171846

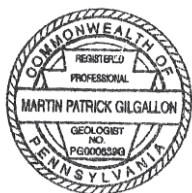
Dear Mr. Coar,

Enclosed, please find one (1) bound copy of the Remedial Action Progress Report for the above referenced Pump-n-Pantry #001 Property. I trust this information meets your needs. Please do not hesitate to contact me with any questions or comments concerning the contents of this report or the project in general.

Sincerely,



Martin Gilgallon, P.G.
Licensed Professional Geologist
LaBella Associates, P.C.



MM/mg – 2171845 / Remedial Action Progress Report

Enclosure

cc: Mr. Scott Quigg / Pump-n-Pantry
Ms. Linda Melvin / ICF International
LaBella Associates Project File #2171845 & #2171846

March 5, 2019

Ms. Linda Melvin
ICF International
4000 Vine Street
Middletown, PA 17057

**RE: Remedial Action Progress Report:
Pump-n-Pantry #001 Property;**
99 Grow Avenue
Bridgewater Township, Susquehanna County, Pennsylvania
PADEP Facility ID#58-13092
PADEP Incident Numbers #48572 & #50143
USTIF Claim Numbers #2015-0126(I) & #2017-0021
LaBella Associates Project Numbers: 2171845 & 2171846

Dear Ms. Melvin,

Enclosed, please find one (1) digital copy on CD-R of the Remedial Action Progress Report for the above referenced Pump-n-Pantry #001 Property. One (1) bound copy has been forwarded to the PADEP, as required.

I trust this information meets your needs. Please do not hesitate to contact me with any questions or comments concerning the contents of this report or the project in general.

Sincerely,



Martin Gilgallon, P.G.
Licensed Professional Geologist
LaBella Associates, P.C.



MM/mg – 2171845 / Remedial Action Progress Report

Enclosure

cc: Mr. Scott Quigg / Pump-n-Pantry
LaBella Associates File #2171845 & #2171846

March 5, 2019

Mr. Scott Quigg
Pump-n-Pantry, Inc.
754 Grow Avenue
Montrose, PA 18801

**RE: Remedial Action Progress Report:
Pump-n-Pantry #001 Property;**
99 Grow Avenue
Bridgewater Township, Susquehanna County, Pennsylvania
PADEP Facility ID#58-13092
PADEP Incident Numbers #48572 & #50143
USTIF Claim #2015-0126(I) & #2017-0021
LaBella Associates Project Numbers: 2171845 & 2171846

Dear Mr. Quigg,

Enclosed, please find one (1) digital copy on CD-R of the Remedial Action Progress Report for the above referenced Pump-n-Pantry #001 Property. Copies have been forwarded to the PADEP and USTIF, as required.

I trust this information meets your needs. Please do not hesitate to contact me with any questions or comments concerning the contents of this report or the project in general.

Sincerely,



Martin Gilgallon, P.G.
Licensed Professional Geologist
LaBella Associates, P.C.



MM/mg – 2171845 / Remedial Action Progress Report

Enclosure

cc: LaBella Associates Project File #2171845 & 2171846

Remedial Action Progress Report

Pump-n-Pantry #001 Property
99 Grow Avenue
Bridgewater Township, Susquehanna County, Pennsylvania
PADEP Facility ID#58-13092
PADEP Incident Numbers #48572 & #50143
USTIF Claim Numbers #2015-0126(I) & #2017-0021

March 5, 2019

Prepared For:
Pump-n-Pantry, Inc.
754 Grow Avenue
Montrose, PA 18801

Corrective Action Process Report / Plan Cover Sheet Chapter 245 Storage Tank Act

- ☐ Site Characterization Report – Section 245.301(b)
- ☐ Site Characterization Report – Site-Specific Standard
- ☐ Site Characterization Report – Statewide Health or Background Standard
- ☐ Remedial Action Plan – Statewide Health or Background Standard
- ☐ Remedial Action Plan – Site Specific Standard
- ☒ Remedial Action Progress Report
- ☐ Remedial Action Completion Report – Statewide Health or Background Standard
- ☐ Remedial Action Completion Report – Site-Specific Standard



March 5, 2019

Mr. Tom Coar
Environmental Group Manager
Environmental Cleanup and Brownfields Program
Pennsylvania Department of Environmental Protection
2 Public Square
Wilkes-Barre, PA 18701-1915

**RE: Remedial Action Progress Report 1st Quarter 2019:
Pump-n-Pantry #001 Property;**
99 Grow Avenue
Bridgewater Township, Susquehanna County, Pennsylvania
PADEP Facility ID#58-13092
PADEP Incident Numbers #48572 & #50143
USTIF Claim Numbers #2015-0126(I) & #2017-0021(I)
LaBella Associates Project Numbers: 2171845 & 2171846

Dear Mr. Coar,

LaBella Associates, P.C. (LaBella) is pleased to present this Remedial Action Progress Report (RAPR) for the above-referenced Pump-n-Pantry #001 Property (subject property). The subject property is located at 99 Grow Avenue in Bridgewater Township, Susquehanna County, Pennsylvania. Refer to Attachment A for a Site Location Map (**Figure 1**). This report summarizes the results of the groundwater monitoring and sampling conducted at the subject property in the **1st Quarter of 2019**. The sampling activities summarized herein were completed in accordance with the guidelines and standards pursuant to the Pennsylvania Department of Environmental Protection's (PADEP's) "*Land Recycling and Environmental Remediation Standards Act*" (Act 2) of July, 1995, as amended; the Corrective Action Process under the *Pennsylvania Storage Tank and Spill Prevention Act* (25 PA Code Chapter 245.301 – 245.313, Corrective Action Process); "*Standard Practice for Low-Flow Purging and Sampling for Wells and Devices Used for Ground-Water Quality Investigations*" (ASTM D16771-02); and the PADEP's *Groundwater Monitoring Guidance Manual*, December 1, 2001.

Site Description

The Pump-n-Pantry #001 Property is located at 99 Grow Avenue in Bridgewater Township, Susquehanna County, Pennsylvania. The subject property is developed with one (1) wood-frame office building (~3,600 square feet), one (1) convenience store building (~6,000 square feet), two (2) fuel dispenser canopies and five (5) associated UST systems situated on 5.19 (+/-) acres of land. The subject property maintains PADEP Facility ID #58-13092 in association with the current UST systems. The subject property is associated with PADEP Incident Numbers #48572 and #50143. USTIF Claim Numbers #2015-0126(I) and #2017-0021(I) apply to these incidents,

respectively. The subject property is provided electricity by Penelec; water service is provided by the Pennsylvania American Water Company; and, sewer service is provided by the Montrose Municipal Authority. The convenience store building is heated via electric heat pumps. The site slopes to the southwest. The average elevation of the subject property is 1,650 feet above mean sea level (M.S.L.), as indicated on the U.S.G.S. (7.5 Minute Series) Montrose East, Pennsylvania Quadrangle. Refer to Attachment A for a Site Sketch (**Figure 2**).

Summary of Open Incidents

According to the PADEP, there are two (2) open incidents at the subject property that need to be resolved. Refer to Attachment A for an Incident Identification Map (**Figure 3**). The following summary is provided:

- **Incident #48572:** In 2015, facility-wide upgrade activities were conducted at the subject property. These activities included the construction of the current convenience store building and the installation of the five (5) current UST systems. The historical convenience store building was razed once the current store was in operation and the pre-existing UST systems were closed via removal. On October 21, 2015, Datom Products of Dunmore, Pennsylvania was completing the closure, via removal, of Tank #003 thru Tank #007 at the subject property. Soil and groundwater contamination was detected during the removal activities in association with Tank #004. Datom Products collected a series of soil and groundwater samples as part of the tank closure activities. Subsequent to the review of the analytical data, it was determined that soil contamination, at concentrations exceeding applicable standards, was also associated with Tank #003, Tank #006, Tank #007 and the gasoline dispenser island. In response to the soil and groundwater contamination, the PADEP drafted a Notice of Violation (NOV) indicating site characterization activities must be completed to investigate this release. The Underground Storage Tank and Indemnification Fund (USTIF) Claim #2015-0126(I) applies to this incident.

Status: LaBella submitted a combined RAP for Incident #48572 and Incident #50143 on February 25, 2019. The PADEP approval of this RAP is pending at the time of completion of this report.

- **Incident #50143:** On January 31, 2017, a release of gasoline occurred when a passenger vehicle backed over a fuel line during delivery at the gasoline USTs by Rich Tank Lines. This resulted in the release of 250 to 300 gallons of gasoline. On February 6, 2017, Northridge Group, Incorporated (Northridge) completed the excavation of the impacted soil. Soil attainment samples collected from the final excavation indicated that soil contamination has been remediated to applicable cleanup standards. Groundwater was encountered during the February 2017 remedial activities by Northridge. A groundwater sample collected from the final excavation indicated that groundwater contamination, at concentrations exceeding applicable cleanup standards, existed in association with this release. In response to the soil and groundwater contamination, the PADEP drafted an NOV indicating site characterization activities must be completed to investigate this release. USTIF Claim #2017-0021(I) applies to this incident.

- **Status:** LaBella submitted a combined RAP for Incident #48572 and Incident #50143 on February 25, 2019. The PADEP approval of this RAP is pending at the time of completion of this report.

Project Parameters

For the purpose of this investigation, all laboratory analyses will include a combination of the Unleaded Gasoline, Diesel Fuel / Fuel Oil #2 and Kerosene Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended December 15, 2012. (i.e. the Short List). A list of the Project Parameters is as follows:

- Benzene
- Cumene
- Ethylbenzene
- MTBE
- Naphthalene
- Toluene
- 1,2,4-TMB
- 1,3,5-TMB
- Total Xylenes

Interim Soil & Groundwater Remediation Activities - Incident #48572

As summarized in previous RAPRs, to date Datom Products and LaBella have completed the excavation and offsite disposal of 3,013.59 tons of petroleum-impacted soil from the subject property. In addition, a total of 25,300 gallons of petroleum impacted groundwater was pumped by Datom Products, treated onsite with activated carbon and discharged to the local POTW under permit from the local sewer authority.

Interim Soil Remediation Activities - Incident #50143

On February 6, 2017, Northridge Group, Incorporated completed the excavation of the impacted soil associated with the January 31, 2017 release. The final excavation measured 25 feet long by 7.25 feet wide. This excavation was completed to the top of the groundwater surface between six (6) and seven (7) feet below grade. Soil attainment samples collected from the final excavation indicated that soil contamination has been remediated to applicable cleanup standards. Copies of the laboratory analytical data sheets associated with the February 6, 2017 attainment soil samples were included in previous RAPRs. Subsurface impacts were identified in the vicinity of OW-4 in association with Incident #50143. LaBella completed the installation of a series a test borings and collected soil samples in the vicinity of OW-4 to confirm the absence of soil contamination in this area.

Interim Groundwater Remediation Activities - Incident #50143

Subsurface impacts at OW-4 were identified during previous sampling events at the subject property. Refer to Attachment A for a Monitoring Well Location Map (**Figure 4**) depicting the location of OW-4. In response to these impacts, LaBella completed one (1) High Vapor Extraction (HVE) event at OW-4. The HVE event at OW-4 was completed on September 13, 2017. Advanced Oil Recovery of Milford, Pennsylvania provided the vacuum truck and disposal services. During the HVE event depth to water and vacuum readings were collected at OW-4 and the surrounding monitoring / observation wells. Vacuum readings and Photoionization Detector (PID) readings of the air effluent from the vacuum truck were also recorded. The following observations are provided:

- A total of 1,622 gallons of water was extracted from OW-4 over a 7.7 hour period.
- Groundwater in the vicinity of OW-4 was drawn down 0.45 feet over the 7.7 hour HVE event.
- The vacuum truck operated at an average of 7.6 inches of mercury. This translated to an average of 0.87 inches of mercury at OW-4.
- No major vacuum influence was observed in the surrounding monitoring / observation wells.
- PID readings collected from the air effluent of the vacuum truck indicated volatile organic compound (VOC) concentrations decreased during the HVE event at OW-4.

Site Characterization Activities

Groundwater Monitoring Well Installation – Incident #48572

Between August 19, 2016, February 9, 2017 and September 13, 2017, LaBella completed the field activities associated with the installation of eleven (11) groundwater monitoring wells (MW-1 thru MW-10 and MW-15) at the subject property. This work was completed to characterize the shallow groundwater aquifer located onsite in association with the groundwater contamination identified in October 2015 (PADEP Incident #48572). Refer to Appendix A for a Monitoring Well Location Map (**Figure 4**) depicting the locations of the groundwater monitoring wells.

Each groundwater monitoring well was completed utilizing a combination of hollow stem auger and air rotary drilling techniques. Each groundwater monitoring well was constructed by lowering PVC screen (0.010 slot) and PVC riser into the borehole. MW-1 through MW-6 were completed as four (4) inch diameter wells. MW-7 through MW-10 and MW-15 were completed as two (2) inch diameter wells. A sand pack consisting of No. 1 Morie sand was placed within the screened interval. A bentonite seal, consisting of bentonite pellets, was placed above the sand pack. Each well was completed with a flush grade manway with locking inner cap. Refer to Attachment B for the associated Monitoring Well Logs and to Attachment C for the associated Well Construction Details. A summary of the well construction information is included in Table 1, as follows:

Table 1
Pump-n-Pantry #001 Property
Well Construction Information

Well #	Depth	Screen Size	Screen Interval	Sand Size	Sand Interval
MW-1	20.64'	0.010 Slot	20.64' – 3.64'	No. 1	21.00' – 2.64'
MW-2	20.66'	0.010 Slot	20.66' – 3.66'	No. 1	21.00' – 2.66'
MW-3	20.16'	0.010 Slot	20.16' – 3.16'	No. 1	21.00' – 2.16'
MW-4	15.35'	0.010 Slot	15.35' – 3.35'	No. 1	21.00' – 2.35'
MW-5	20.32'	0.010 Slot	20.32' – 3.32'	No. 1	21.00' – 2.32'
MW-6	20.46'	0.010 Slot	20.46' – 3.46'	No. 1	21.00' – 2.46'
MW-7	20.23'	0.010 Slot	20.23' – 3.23'	No. 1	21.00' – 2.00'
MW-8	20.41'	0.010 Slot	20.41' – 3.14'	No. 1	20.50' – 2.00'
MW-9	19.80'	0.010 Slot	19.80' – 2.80'	No. 1	20.50' – 2.00'
MW-10	19.34'	0.010 Slot	19.34' – 2.34'	No. 1	21.00' – 2.00'
MW-15	19.60'	0.010 Slot	19.60' – 2.60'	No. 1	20.00' – 2.00'

Groundwater Monitoring Well Installation – Incident #50143

Between April 19, 2017 and April 20, 2017, LaBella completed the field activities associated with the installation of four (4) groundwater monitoring wells (MW-11 thru MW-14) at the subject property. This work was completed to characterize the shallow groundwater aquifer located onsite in association with the groundwater contamination identified in January 2017 (PADEP Incident #50143). Refer to Appendix A for a Monitoring Well Location Map (**Figure 4**) depicting the locations of the groundwater monitoring wells.

Each groundwater monitoring well was completed utilizing a combination of hollow stem auger and air rotary drilling techniques. Each groundwater monitoring well was constructed by lowering two (2) inch PVC screen (0.010 slot) and PVC riser into the borehole. A sand pack consisting of No. 1 Morie sand was placed within the screened interval. A bentonite seal, consisting of bentonite pellets, was placed above the sand pack. Each well was completed with a flush grade manway with locking inner cap. Refer to Attachment B for the associated Monitoring Well Logs and to Attachment C for the associated Well Construction Details. A summary of the well construction information is included in Table 2, as follows:

Table 2
Pump-n-Pantry #001 Property
Well Construction Information

Well #	Depth	Screen Size	Screen Interval	Sand Size	Sand Interval
MW-11	20.56'	0.010 Slot	20.56' – 3.56'	No. 1	21.00' – 2.00'
MW-12	20.56'	0.010 Slot	20.56' – 3.56'	No. 1	21.00' – 2.00'
MW-13	19.09'	0.010 Slot	19.09' – 3.09'	No. 1	20.00' – 2.00'
MW-14	20.12'	0.010 Slot	20.12' – 3.12'	No. 1	20.50' – 2.00'

Quarterly Groundwater Monitoring Activities

The field activities associated with the groundwater sampling program were conducted on February 18 and 19, 2019 by LaBella. These activities included the collection of groundwater samples from the fourteen (14) of the fifteen (15) monitoring wells and four (4) UST cavity observation wells. MW-7 was covered over by a large snow pile and, as such, was not sampled. Former recovery well RW-1 was destroyed by snow plowing activities sometime prior to the sampling event and was not sampled. MW-11 was purged and sampled as planned; however, the sample glassware was subsequently destroyed in transit to ALS. A Monitoring Well Location Map (**Figure 4**) depicting the locations of the groundwater monitoring wells, observation wells and recovery well is included in Attachment A of this report. Refer to Attachment D for field notes generated as part of the field activities. The scope of work associated with the completion of the groundwater sampling activities included the purging of the groundwater monitoring wells utilizing low flow / low stress and hand-bailing methods. Purging activities included the monitoring of pH, temperature, specific conductance, dissolved oxygen (D.O.), turbidity (low flow only) and oxidation-reduction potential (O.R.P). In accordance with the provisions of the PADEP *Groundwater Monitoring Guidance Manual* (December 1, 2001 edition), the groundwater effluent generated during the well purging activities was containerized onsite pending disposal considerations.

The eighteen (18) groundwater samples, plus two (2) QA/QC Field Blanks, were delivered to ALS Environmental in Middletown, Pennsylvania. Nineteen (19) of twenty (20) samples delivered were analyzed for a combination of the Unleaded Gasoline, Diesel Fuel / Fuel Oil #2 and Kerosene Parameters specified in the April 1, 1998 PADEP Technical Document: Closure Requirements for Underground Storage Tank Systems, as amended December 15, 2012. (i.e. the Short List). In addition, seven (7) of the fifteen (15) groundwater samples (i.e. MW-1 thru MW-15) were field analyzed for Manganese, Ferrous Iron, Nitrate and Sulfate to further characterize the chemical properties of the shallow aquifer beneath the study area. A Sample Log is provided as Table 3, as follows:

Table 3
Pump-n-Pantry #001 Property
Sample Log
February 2019 Field Activities

Sample Number	Sample Description	Analysis
112-0218-MW1	MW-1	Project Parameters
112-0218-MW2	MW-2	Project Parameters
112-0218-MW3	MW-3	Project Parameters
112-0218-MW4	MW-4	Project Parameters
112-0218-MW5	MW-5	Project Parameters
112-0218-MW6	MW-6	Project Parameters
112-0218-MW7	MW-7	Project Parameters
112-0218-MW8	MW-8	Project Parameters
112-0218-MW9	MW-9	Project Parameters
112-0218-MW10	MW-10	Project Parameters
112-0218-MW11	MW-11	Project Parameters
112-0218-MW12	MW-12	Project Parameters
112-0218-MW13	MW-13	Project Parameters

Table 3 (Cont.)
Pump-n-Pantry #001 Property
Sample Log
February 2019 Field Activities

Sample Number	Sample Description	Analysis
112-0218-MW14	MW-14	Project Parameters
112-0218-MW15	MW-15	Project Parameters
112-0218-OW1	OW-1	Project Parameters
112-0218-OW2	OW-2	Project Parameters
112-0218-OW3	OW-3	Project Parameters
112-0218-OW4	OW-4	Project Parameters
112-0218-FB1	QA/QC Field Blank	Project Parameters
112-0218-FB2	QA/QC Field Blank	Project Parameters

Separate Phase Liquids

No measurable SPL was detected in any of the groundwater monitoring points.

Determination of Groundwater Flow

As part of the groundwater sampling activities, LaBella constructed a groundwater contour map to determine the direction of groundwater flow beneath the study area. LaBella utilized the depth to groundwater data collected at the site during the February 18, 2018 field activities. Kiley Associates of Lakeville, Pennsylvania determined the well casing elevations via the completion of a site survey and level run. These elevations were referenced to a local USGS benchmark. The direction of groundwater flow was determined via the use of EnviroInsite 10.0 software (copyright EarthSoft, Incorporated, 2017). A table summarizing the historical depth to groundwater data and the associated groundwater elevation information is provided in Attachment E. Groundwater contour maps are provided in Attachment F. Site-specific observations are as follows.

- A review of local topography and local drainage patterns indicates the subject property lies along a surface water divide. The surface water from the area of MW-1 and the current office building flows to the north-northeast toward Lake Montrose. Surface water from the majority of the subject property flows to the south-southwest.
- The most recent groundwater contour map (i.e. February 18, 2019), which included fourteen (14) of fifteen (15) monitoring wells, indicates the shallow groundwater beneath the subject property flows to the southwest.
- One (1) hydraulic gradient was calculated for the February 18, 2019 data. The hydraulic gradient at the subject property was determined to be **0.0185 feet / foot** toward the southwest.
 - The hydraulic gradient (i) was determined using the groundwater elevations (h) associated with MW-2 (h₁) and MW-10 (h₂).
 - The distance (d) between these wells is 317 feet.

- $(i) = (h_1 - h_2) / d$.
- $(i) = (1,649.14 - 1,643.28) / 317 = \mathbf{0.0185 \text{ ft/ft}}$ (02/18/19 data).

Due to the absence of deep monitoring wells onsite, an evaluation of the vertical component of flow could not be determined.

Analytical Results

General

The analytical results associated with the **1st Quarter 2019** groundwater sampling event were received by LaBella from ALS Environmental. The contaminant concentrations detected were compared to the standards included in Pennsylvania's "*Land Recycling and Environmental Remediation Standards Act*" (Act 2) of July, 1995, as amended. Refer to Attachment G for copies of the groundwater analytical data sheets associated with the **1st Quarter 2019** groundwater monitoring event.

Comparison of Groundwater Data to Statewide Health Standard MSCs - Incident #48572

The results of the groundwater sampling program indicate petroleum-related contamination was detected in seven (7) of the thirteen (13) groundwater samples collected from the monitoring wells and observations wells associated PADEP Incident #48572. These five (5) groundwater samples had compound concentrations in excess of the respective Non-Residential, Used Aquifer (TDS <2,500 mg/l) Statewide Health Standard MSCs. Refer to Attachment H for a table summarizing the groundwater analytical data (**Table H-1**). Groundwater isopleth maps are provided in Attachment I of this report. A summary of the exceedances is provided in Table 4.

Table 4
Pump-n-Pantry #001 Property
Summary of Groundwater Exceedances (ug/l) – Incident #48572
February 2019 Field Activities

Location	Parameter	Concentration	Act 2 MSC
MW-2	Benzene	30.2 µg/l	5.0 µg/l
	1,2,4-TMB	90.0 µg/l	62 µg/l
MW-3	Benzene	38.0 µg/l	5 µg/l
MW-4	Benzene	465 µg/l	5 µg/l
MW-5	Benzene	101 µg/l	5 µg/l
MW-15	Benzene	42.3 µg/l	5 µg/l
	1,2,4-TMB	297 µg/l	62 µg/l

Comparison of Groundwater Data to Statewide Health Standard MSCs - Incident #50143

The results of the groundwater sampling program indicate no petroleum-related contamination was detected in any of the five (5) groundwater samples collected from the monitoring wells and observations wells associated PADEP Incident #50143. All compound concentrations were below the laboratory Method Detection Limits (MDLs) for each compound analyzed. Furthermore, all MDLs were below the respective Non-Residential, Used Aquifer (TDS <2,500 mg/l) Statewide Health Standard MSCs. Refer to Attachment H for a table summarizing the groundwater analytical data (**Table H-1**). Groundwater isopleth maps are provided in Attachment I of this report.

Review of Site-Specific Intrinsic Data

A review of the site-specific in-situ data was completed utilizing the February 2019 data. For the purpose of this data evaluation, MW-6 was utilized as the background well. Refer to Attachment H for a summary of the intrinsic data (**Table H-2**). The following is offered.

- Dissolved Oxygen (DO): A review of DO data indicates the background DO concentration was 0.00 mg/l (MW-6) on February 19, 2019. Generally, DO concentrations above 2.0 mg/l are required for aerobic biodegradation to occur. Overall, DO concentrations are higher outside the contaminant plume than inside.
- Oxidation-Reduction Potential (ORP): A review of ORP data indicates ORP values are negative inside the plume and positive elsewhere (e.g. -119 mV at MW-1), indicating chemically reducing conditions (anaerobic conditions) are prevalent. Dissolved oxygen concentrations were lowest where ORP is negative. This relationship indicates the presence of a reducing environment.
- Ferrous Iron (Fe+2): A review of in-situ data indicates Fe+2 concentrations are generally higher inside the contaminant plume than outside. These data suggest that Fe+3 is being used as an electron acceptor, which indicates the presence of a reducing environment throughout much of the study area.
- Sulfate: A review of in-situ data indicates Sulfate concentrations are generally lower within the contaminant plume than outside. These data suggest that Sulfate is being used as an electron acceptor during anaerobic biodegradation. Overall, the Sulfate data is not a good indicator of naturally occurring biodegradation.
- Nitrate: A review of in-situ data indicates Nitrate concentrations are generally lower inside and downgradient of the contaminant plume. These data suggest that Nitrate is being used as an electron acceptor during anaerobic biodegradation. The Nitrate data is not as profound as the Fe+2 data.
- Manganese (Mn+2): A review of in-situ data indicates Mn+2 concentrations are generally higher inside the contaminant plume than outside. These data suggest that Mn+4 is being used as a terminal electron acceptor during anaerobic biodegradation, resulting in increased Mn+2.

A review of site-specific in-situ data indicates that the background DO concentration in MW-1 is adequate to sustain aerobic activity at the subject property. A review of the DO vs. ORP relationship and metals data suggests aerobic biodegradation is occurring at the subject property until the dissolved oxygen is depleted, at which point anaerobic biodegradation becomes prevalent.

Temporal Trend Analysis

Time-series graphs were prepared for each compound that exceeded the respective MSCs within the last five (5) groundwater sampling events. These graphs are included in Attachment J. A linear regression best-fit trend line was fit to the time-series data on each graph using the trend line function in MS Excel. Refer to Table 5 for a summary of the trends have been identified based on a review of the time-series graphs.

Table 5
Pump-n-Pantry #001 Property
Groundwater Analytical Data – Trend Summary

Well #	Compound	Trend	Concentration
MW-2	Benzene	Decreasing	Above MSC
	MTBE	Stable	Below MSC
	1,2,4-TMB	Decreasing	Above MSC
MW-3	Benzene	Decreasing	Above MSC
MW-4	Benzene	Increasing	Above MSC
MW-5	Benzene	Decreasing	Above MSC
	MTBE	Decreasing	Below MSC
	1,2,4-TMB	Decreasing	Below MSC
MW-15	Benzene	Decreasing	Above MSC
	Ethylbenzene	Decreasing	Below MSC
	Naphthalene	Decreasing	Below MSC
	Toluene	Decreasing	Below MSC
	1,2,4-TMB	Decreasing	Above MSC
OW-4	Benzene	Stable	Below MSC
	Ethylbenzene	Stable	Below MSC
	Naphthalene	Stable	Below MSC
	Toluene	Stable	Below MSC
	1,2,4-TMB	Stable	Below MSC

Ongoing / Proposed Activities

On February 25, 2019, LaBella submitted a Remedial Action Plan (RAP) to the Pennsylvania Department of Environmental Protection. A 60-day turnaround regarding Approval/Comments regarding the RAP was pending at the time of completion of this report. Upon receipt of Approval/Comments, LaBella will initiate the implementation of the RAP on or before April 26, 2019.

Table 6
Proposed Compliance Schedule
Pump-n-Pantry #001 Property

Task	Description	Proposed Date
0.0	Submit Remedial Action Plan to PADEP	February 25, 2019
	Receive PADEP Approval / Comments (60-Day Review)	April 25, 2019
	Implement Remedial Action Plan	April 26, 2019

Closing

I trust this information meets your needs. Please do not hesitate to contact me if you have any questions or comments regarding the contents of this report or the project in general.

Sincerely,



Martin Gilgallon, P.G.
Licensed Professional Geologist
LaBella Associates, P.C.



"By affixing my seal to this report, I am certifying that the information is true and correct. I further certify I am licensed to practice in the Commonwealth of Pennsylvania and that it is within my professional expertise to verify the correctness of the information"

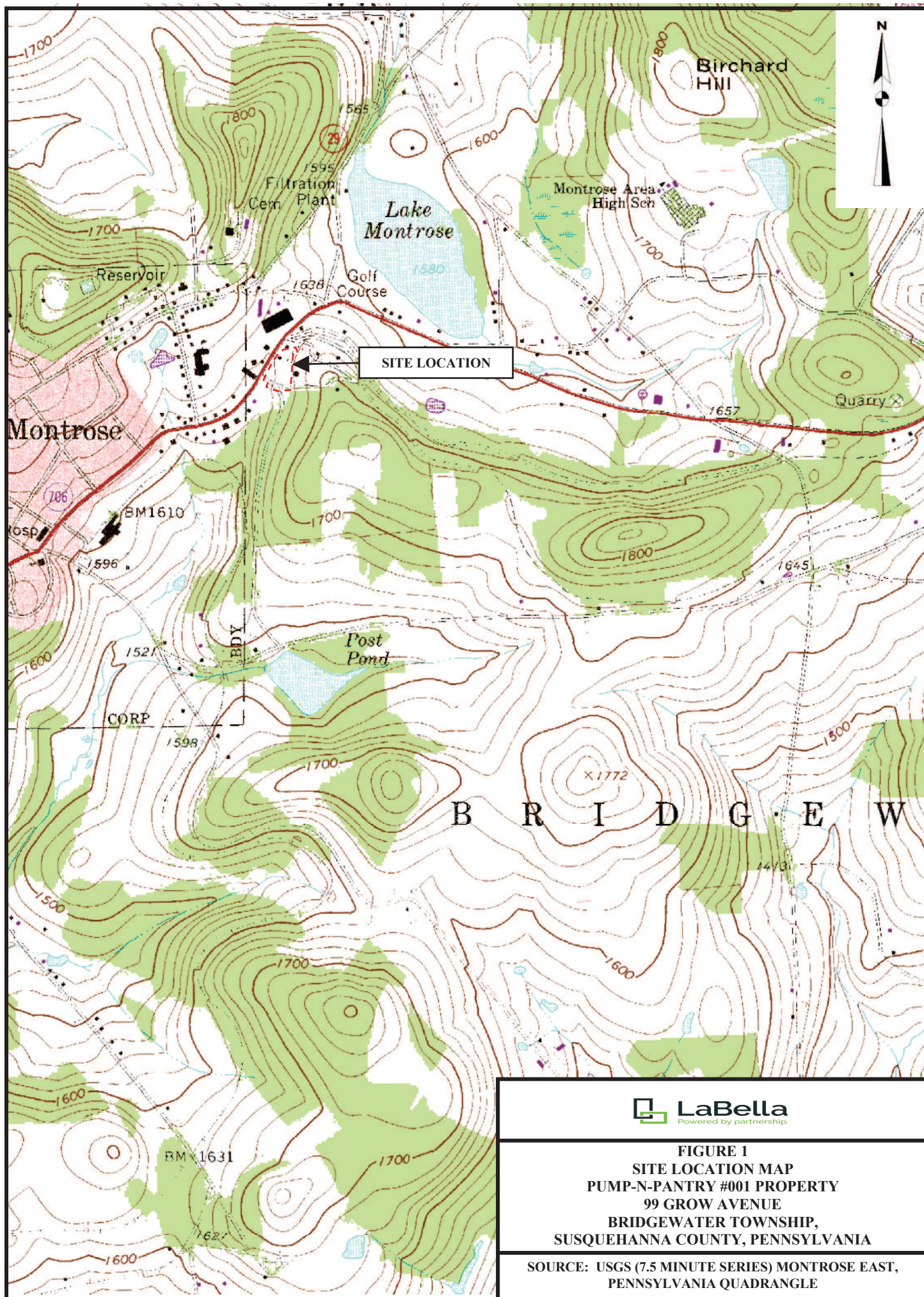
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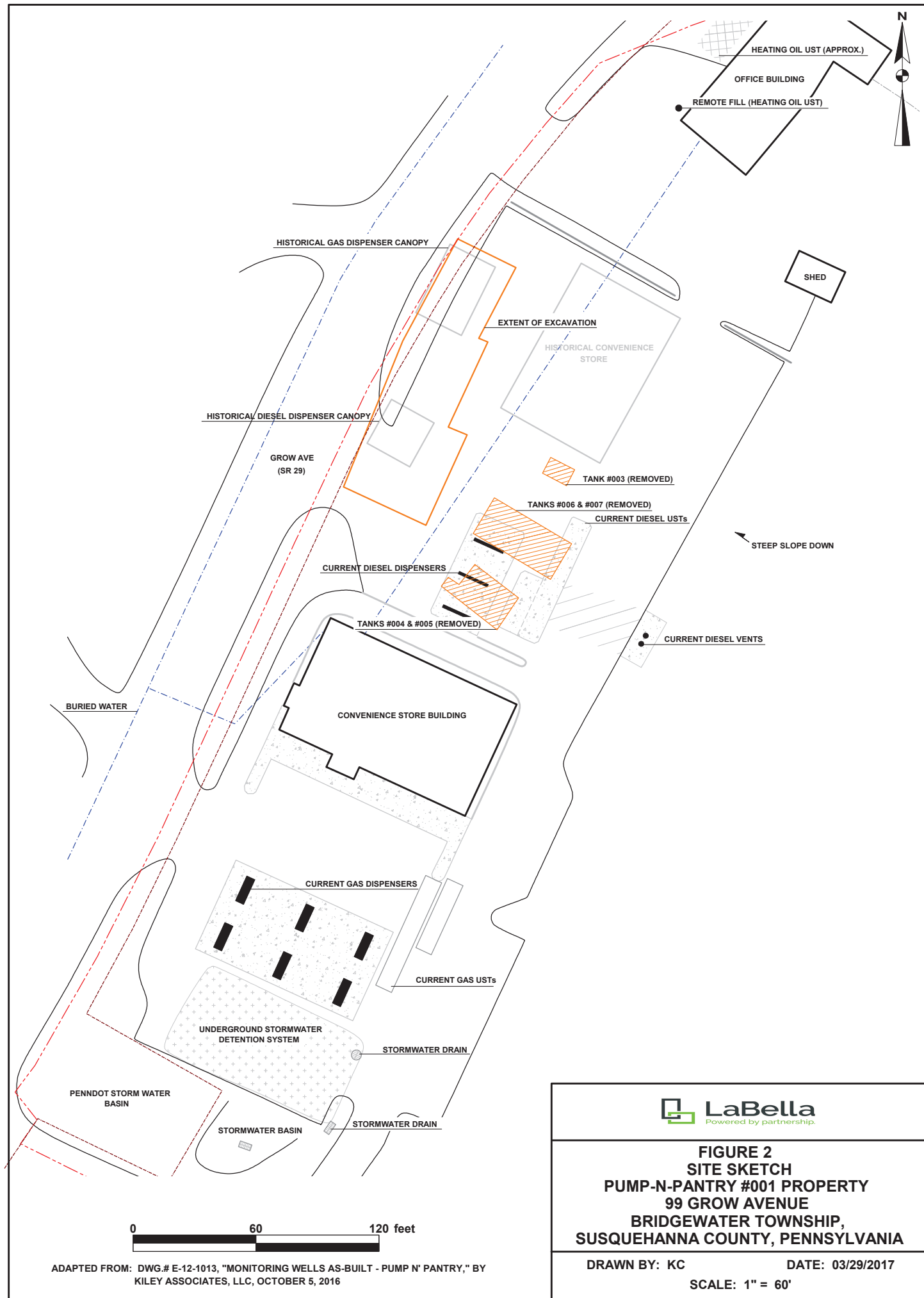
Attachments

cc: Mr. Scott Quigg / Pump-n-Pantry
Ms. Linda Melvin / ICF International
LaBella Associates File # 2171845 & 2171846

ATTACHMENT A

Site Maps and Figures



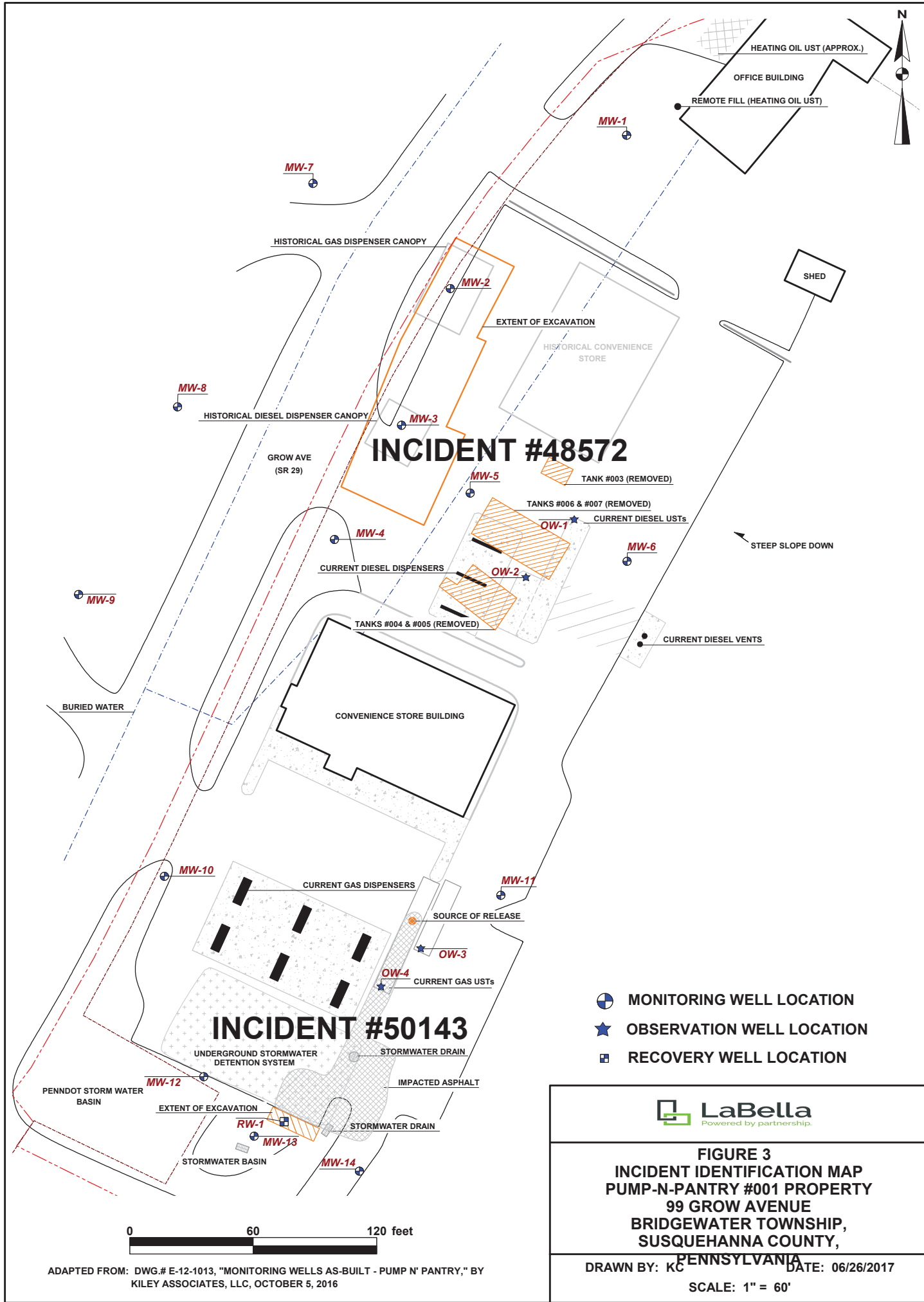


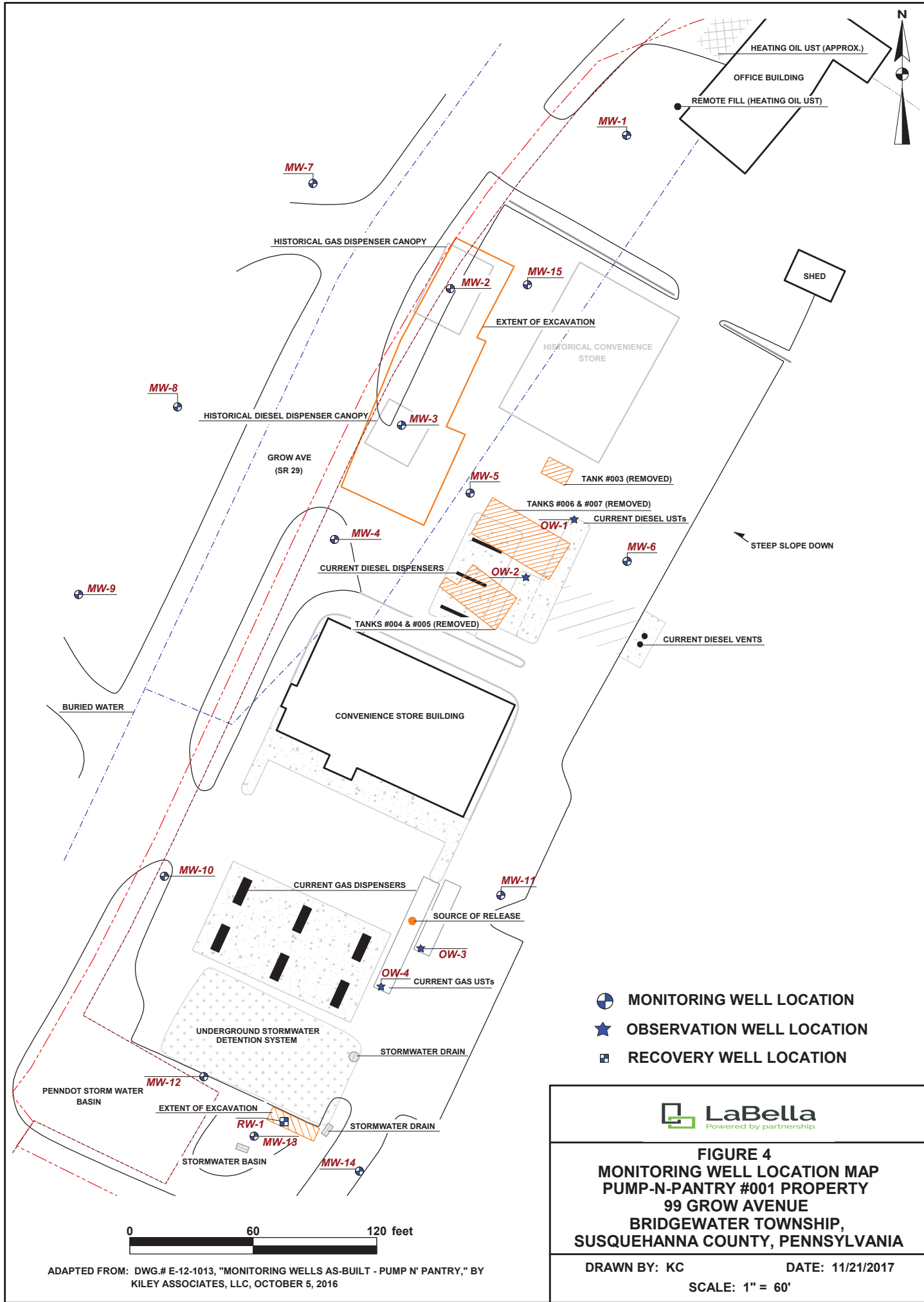
ADAPTED FROM: DWG.# E-12-1013, "MONITORING WELLS AS-BUILT - PUMP N' PANTRY," BY KILEY ASSOCIATES, LLC, OCTOBER 5, 2016

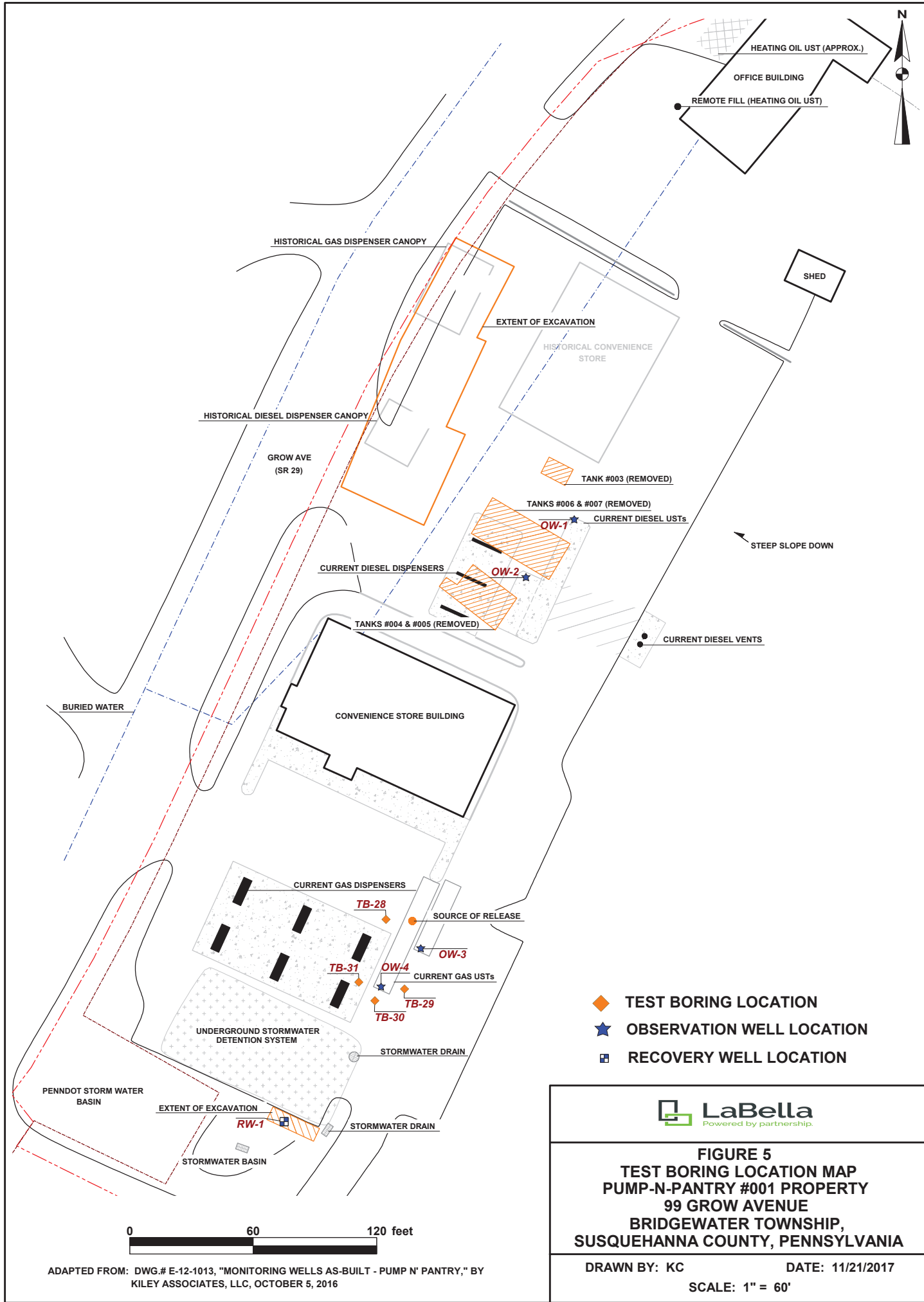


FIGURE 2
SITE SKETCH
PUMP-N-PANTRY #001 PROPERTY
99 GROW AVENUE
BRIDGEWATER TOWNSHIP,
SUSQUEHANNA COUNTY, PENNSYLVANIA

DRAWN BY: KC DATE: 03/29/2017
SCALE: 1" = 60'







ATTACHMENT B

Monitoring Well Logs

LaBella Associates, P.C.

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 19, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 19, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-1

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		7:50	8:40	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 5.0'	Asphalt Surface	
1---				Dark brown and medium brown		
---				sand and silt with sub-rounded		
2---				pebbles and cobbles		

3---						

4---						

5---		0.0		5.0' - 10.0'	Hard / Steady 5.0'-8.0'	
---				Medium dark gray (N4), well		
6---				sorted fine-medium grained		
---				sandstone		
7---						

8---					Soft / Steady 8.0'-9.0'	

9---						

10---		0.0		10.0' - 11.0'	Soft / Steady 10.0'-11.0'	
---				Dark brown weathered	Weathered	
11---				sandstone (fracture)		
---				11.0' - 14.5'	Hard / Steady 11'-14.5'	
12---				Medium dark gray (N4) well		
---				sorted medium-fine grained		
13---				sandstone		

14---						

15---		0.0		14.5' - 17.0'	Soft / Choppy 14.5'-17.0'	
---				Dark gray (N3) well sorted	Weathered	
16---				medium-fine grained sandstone		
---				with interbedded dark brown		
17---				weathered sandstone		
---				(fractures)		
18---				17.0' - 21.0'	Hard 18.0'-21.0'	
---				Grayish green (SG 5/2) well		
19---				sorted fine grained sandstone		

		0.0		Log Approved By:		
				Martin Gilgallon, P.G.		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 23, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 23, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-2

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		13:20	14:00	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 5.0'	Mulch Surface	
1---				Pulverized sandstone fill material (shot rock)		
2---						
3---						
4---						
5---		31.1		5.0' - 7.0'	Wet at 5.0'	
6---				Dark brown sand and silt with sub-angular pebbles and cobbles		
7---				7.0' - 11.5'	Bedrock at 7.0'	
8---				Medium gray (N5), fine to medium grained sandstone (well sorted)	Hard / Steady 7.0'-11.5'	
9---						
10---		0.0				
11---						
12---				11.5' - 12.0'	Choppy / Fracture 11.5'-12.0'	
13---				Dark brown weathered sandstone		
14---				12.0' - 12.5'	Hard/Steady 12.0'-12.5'	
15---				Medium gray (N5), fine-medium grained sandstone		
16---				12.5' - 13.0'	Choppy / Fracture 12.5'-13.0'	
17---		0.0		Dark brown weathered sandstone		
18---				13.0' - 19.5'	Hard/Steady 13.0'-19.5'	
19---				Grayish green (SG 5/2) well sorted fine grained sandstone		
---				19.5' - 21.0'		
---				Dark brown weathered sandstone		
---				Log Approved By:	Choppy / Fracture 19.5'-21.0'	
---		0.0		Martin Gilgallon, P.G.		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 23, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 23, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-3

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		7:55	9:15	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 6.0'	Asphalt Surface	
1---				Pulverized rocky fill material (shot rock)		
2---						
3---						
4---						
5---		0.0			Wet at 5.0'	
6---		29.4	Odors at 6.0'	6.0' - 10.0'		
7---				Dark brown sand and silt with angular and sub-angular pebbles and cobbles		
8---						
9---						
10---		25.6		10.0' - 21.0'	Rock at 10.0' Hard / Steady 10.0'-21.0'	
11---				Medium dark gray (N4) well sorted, fine grained sandstone		
12---						
13---						
14---						
15---		0.0			Note: Well collapsed at 7.0'. Installed 15.0' temporary casing. Well constructed as casing was removed.	
16---						
17---						
18---						
19---						
---		0.0				

Log Approved By:
Martin Gilgallon, P.G.

LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 22, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 22, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-4

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		11:45	12:20	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 2.0'	Mulch Surface	
1---				Modified fill materials		

2---		31.3	Odors at 2.0'	2.0' - 9.5'		
---				Medium brown and dark brown		
3---				sand and silt with abundant		
---				sub-angular pebbles and		
4---				cobbles		

5---		56.8			Wet at 5.0'	

6---						

7---						

8---						

9---				9.5' - 15.5'	Bedrock at 9.5'	
---				Medium dark gray (N4) well	Hard / Steady 9.5'-21.0'	
10---		0.0		sorted, fine grained sandstone		

11---						

12---						

13---						

14---						

15---		0.0			Note: Hole collapsed at	
---					~15.0'. Well set at	
16---				15.5' - 21.0'	15.35' below grade	
---				Grayish green (SG 5/2) well		
17---				sorted, fine-medium grained		
---				sandstone		
18---						

19---						

		0.0			Log Approved By: Martin Gilgallon, P.G.	



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 24, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 24, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-5

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		7:45	9:30	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 8.0'	Asphalt Surface	
1---				Dark brown sand and silt with abundant sub-angular pebbles and cobbles		
2---		85.0	Odors at 2.0'			
3---						
4---					Wet at 4.0'	
5---		116.0				
6---						
7---						
8---				8.0' - 18.0'	Bedrock at 8.0'	
9---				Medium dark gray (N4) well sorted, fine grained sandstone	Hard / Steady 8.0'-18.0'	
10---		20.7				
11---						
12---						
13---						
14---					Note: Hole collapsed at 6.0'. Installed 21' temporary casing, well constructed as casing was pulled)	
15---		0.0				
16---						
17---						
18---				18.0' - 21.0'	Choppy / Fracture	
19---				Broken weathered sandstone	18.0'-20.0'	
---				Log Approved By:	Hard / Steady	
		0.0		Martin Gilgallon, P.G.	20.0'-21.0'	



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: August 19, 2016

Client: Pump-n-Pantry, Inc.

Date Finished: August 19, 2016

Purpose: Site Characterization Activities

Contractor: Eichelbergers

Boring Number: MW-6

Driller: Tim Westover

Job Number: 25112

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		9:45	10:15	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 3.0'	Asphalt Surface	
1---				Dark brown and medium brown sand and silt with sub-rounded pebbles and cobbles		
2---						
3---				3.0' - 5.5'	Top of Rock at 3.0'	
4---				Medium dark gray (N4) well sorted, fine-medium grained sandstone, change to dark brown weathered sandstone (fracture) at 5.5'	Rod Change at 3.0'	
5---		0.0			Hard / Steady 3.0'-5.0'	
6---				5.5' - 10.5'	Very Hard / Steady 5.0'-5.5'	
7---		15.3	Slight Odor at 7.0'	Medium dark gray (N4) well sorted, fine-medium grained sandstone	Choppy / Weathered at 5.5'	
8---					Very Hard / Steady 5.5' - 8.0'	
9---					Choppy / Softer 8.0'-9.0'	
10---		0.0			Hard / Steady 9.0'-10.5'	
11---				10.5' - 11.5'	Choppy / Softer / Weathered 10.5'-11.5'	
12---				Dark brown weathered sandstone (fractured)		
13---				11.5' - 15.5'	Choppy / Weathered 11.5'-16.0'	
14---				Medium dark gray (N4) well sorted, fine-medium grained sandstone		
15---		0.0		15.5' - 16.0'	Hard / Steady 16.0'-20.0'	
16---				Dark brown weathered sandstone (fractured)		
17---				16.0' - 20.0'		
18---				Medium dark gray (N4) well sorted, fine-medium grained sandstone	Choppy / Weathered 20.0'-20.5'	
19---				20.0' - 20.5'		
---				Dark brown weathered sandstone (fractured)		
---				20.5' - 21.0'	Hard / Steady 20.5'-21.0'	
---		0.0		Medium gray (N4) well sorted, fine-medium grained sandstone		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: Soft Dig: 02.06.17 / Drilling: 02.09.17

Client: Pump-n-Pantry, Inc.

Date Finished: Soft Dig: 02.06.17 / Drilling: 02.09.17

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-7

Driller: Jeff Zelko

Job Number: 25112

Inspectors: Chris Herman (Soft) / Kevin Cucura (Drilling)

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig Drilling		11:50 9:30	12:15 11:13	3.0' 21.0'	Elevation TOC	Surface
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---			Moist 0.0' - 3.0'	0.0' - 3.0'	Gravel Surface	
1---		0.0		Dark brown sand and silt with sub-angular pebbles and trace amounts of wood chips and slag; sandstone at 3.0'	Soft Dig 0.0' - 3.0'	
2---		0.0			Auger 10" Diameter Borehole 3.0' - 10.0'	
3---		0.0	Wet 3.0' - 10.0'	3.0' - 10.0'	Drill 6" diameter air-rotary 10.0' - 21.0'	
4---		0.0		Weathered gray sandstone		
5---		0.0				
6---		0.0				
7---		0.0				
8---		0.0				
9---		0.0				
10---		0.0		10.0' - 21.0'	Competent bedrock	
11---				Gray to medium gray, fine to medium grained sandstone		
12---						
13---					Sample Log:	
14---					Sample ID #:	
15---					112-0206-MW7A	
16---					Sample Depth:	
17---					2.0' - 3.0'	
18---					Sample Time: 1232	
19---			Wet @ rod change			



LaBella Associates, P.C				TEST BORING LOG		
Project: Pump-n-Pantry #001 Property				Date Started: Soft Dig: 02.06.17 / Drilling: 02.08.17		
Client: Pump-n-Pantry, Inc.				Date Finished: Soft Dig: 02.06.17 / Drilling: 02.08.17		
Purpose: Site Characterization Activities						
Contractor: Odyssey Environmental				Boring Number: MW-8		
Driller: Jeff Zelko				Job Number: 25112		
Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)				Sheet: 1of 1		
TIME LOG		Begin	Finish	Depth	S.W.L.	TOC/GL
Soft Dig		9:15	10:43	5.0'	Elevation TOC	Surface
Drilling		10:54	12:41	20.5'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---			Moist 0.0' - 4.0'	0.0' - 3.0'	Asphalt Surface	
1---		0.0		Medium brown sand and silt with rounded pebbles to 1.5',	Soft Dig 0.0' - 5.0'	
2---		0.0		change to dark gray sand and silt with abundant and	Auger 10" Diameter Borehole 5.0' - 15.5'	
3---		0.0		sub-angular pebbles / cobbles		
4---		3.0		3.0' - 5.0'	Drill 6" diameter air-rotary 15.5' - 20.5'	
5---		9.0	Wet 4.0' - 15.5'	Dark gray sand and silt with abundant angular and		
6---		13.0		sub-angular pebbles and cobbles		
7---				5.0' - 6.0'		
8---				Boulder		
9---				6.0' - 8.0'		
10---				Brown silt and clay with some pebbles		
11---				8.0' - 15.5'		
12---				Weathered gray sandstone		
13---					Sample Log:	
14---					Sample ID #:	
15---					112-0206-MW8A	
16---					Sample Depth:	
17---					2.0' - 3.0'	
18---					Sample Time: 0953	
19---					Sample ID #:	
20---					112-0206-MW8B	
21---					Sample Depth:	
22---					4.0' - 4.5'	
23---					Sample Time: 1023	
24---			Wet @ rod change	15.5' - 20.5'		
25---				Gray to medium gray, medium grained sandstone with few shale interbeds		
26---						
27---						
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LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property				Date Started: Soft Dig: 02.06.17 / Drilling: 02.08.17	
Client: Pump-n-Pantry, Inc.				Date Finished: Soft Dig: 02.06.17 / Drilling: 02.08.17	
Purpose: Site Characterization Activities					
Contractor: Odyssey Environmental				Boring Number: MW-9	
Driller: Jeff Zelko				Job Number: 25112	
Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)				Sheet: 1 of 1	
TIME LOG		Begin	Finish	Depth	S.W.L.
Soft Dig		11:18	11:54	5.0'	Elevation TOC
Drilling		15:10	16:30	20.5'	TOC/GL Surface
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes
---			Moist 0.0' - 4.0'	0.0' - 4.0'	Asphalt Surface
1---		0.0		Medium-light brown sand and silt with abundant sub-angular and sub-rounded pebbles to 1.5', change to gray sand and silt with sub-angular pebbles and cobbles	Soft Dig 0.0' - 5.0'
2---		0.0			Auger 10" Diameter Borehole 5.0' - 15.0'
3---		0.0			Drill 6" diameter air-rotary 15.0' - 20.5'
4---		0.0	Wet 4.0' - 15.0'	4.0' - 5.0'	
5---		0.0		Light brown sand, silt and clay with some angular and sub-angular cobbles	
6---		0.0		5.0' - 6.0'	
7---		0.0		Dark brown silt and clay with some sand and sub-angular pebbles	
8---		0.0		6.0' - 10.0'	
9---		0.0		Weathered gray bedrock	
10---		0.0			
11---		0.0			Sample Log:
12---		0.0			Sample ID #:
13---		0.0			112-0206-MW9A
14---		0.0			Sample Depth:
15---		0.0			2.0' - 3.0'
16---		0.0			Sample Time: 1134
17---		0.0			
18---		0.0			Sample ID #:
19---		0.0			112-0206-MW9B
---			Hard / steady	14.0' - 15.0'	Sample Depth:
---				Medium gray sandstone	4.0' - 5.0'
---					Sample Time: 1147
---			Wet @ rod change		
---			Soft ~ 17.0'		

---			Hard / steady		
---				Log Approved By:	
---				Martin Gilgallon, P.G.	



LaBella Associates, P.C				TEST BORING LOG			
Project: Pump-n-Pantry #001 Property				Date Started: Soft Dig: 02.06.17 / Drilling: 02.09.17			
Client: Pump-n-Pantry, Inc.				Date Finished: Soft Dig: 02.06.17 / Drilling: 02.09.17			
Purpose: Site Characterization Activities							
Contractor: Odyssey Environmental				Boring Number: MW-10			
Driller: Jeff Zelko				Job Number: 25112			
Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)				Sheet: 1of 1			
TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface	
Soft Dig		13:02	13:30	5.0'			
Drilling		13:30	15:38	21.0'			
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes		
---			Moist 0.0' - 4.0'	0.0' - 5.0' Dark brown sand and silt with abundant sub-angular and angular pebbles and cobbles	Asphalt Surface Soft Dig 0.0' - 5.0'		
1---		0.0			Auger 10" Diameter Borehole 5.0' - 14.0'		
2---		0.0			Drill 6" diameter air-rotary 14.0' - 21.0'		
3---		0.0					
4---		0.0	Wet 4.0' - 14.0'				
5---		0.0		5.0' - 8.0' Dark brown sand and silt with some clay and sub-angular pebbles and cobbles			
6---		0.0					
7---		0.0					
8---		0.0		8.0' - 14.0' Weathered gray sandstone with some shale			
9---		0.0					
10---		0.0					
11---		0.0			Sample Log: Sample ID #: 112-0206-MW10A Sample Depth: 2.0' - 3.0' Sample Time: 1310		
12---		0.0					
13---		0.0					
14---		0.0		14.0' - 16.0' Medium-grained sandstone with shale interbeds near 17.0' to 17.5'	Sample ID #: 112-0206-MW10B Sample Depth: 4.0' - 5.0' Sample Time: 1326		
15---			Hard / steady				
16---			Wet @ rod change Soft / steady				
17---			Hard / steady				
18---							
19---							

				Log Approved By: Martin Gilgallon, P.G.			

LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: April 19, 2017

Client: Pump-n-Pantry, Inc.

Date Finished: April 19, 2017

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-11

Driller: Jeff Zelko

Job Number: 25112

Inspectors: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:30	13:30	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 4.0'	Asphalt Surface	
1---		0.0	Moist to 4.0'	Soft dig to 4.0'; dark brown		
---			No Odor	and gray sand and silt with		
2---		0.0	No Visual	some clay; bedrock at 4.0'		

3---		0.0				

4---		2.0	Hard / Steady	4.0' - 11.0'		
---				Gray sandstone		
5---		0.0				

6---		0.0				

7---			Rod Change 7.0'			
---			Dry			
8---						

9---		0.0				

10---						

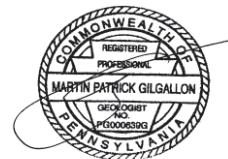
11---			Soft / Steady	11.0' - 14.0'		
---				Red siltstone		
12---		0.0	Rod Change 12.0'			
---			Dry			
13---						

14---			Hard / Steady	14.0' - 15.0'		
---				Gray sandstone		
15---		0.0	Soft / Choppy	15.0' - 17.0'		
---				Weathered sandstone		
16---						

17---			Rod Change 17.0'	17.0' - 21.0'		
---			Water Observed	Gray sandstone		
18---			Hard / Steady			

19---						

		0.0		Log Approved By: Martin Gilgallon, P.G.		



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property				Soft Dig: Drilling		
Client: Pump-n-Pantry, Inc.				Date Started: 04/19/2017 4/20/2017		
Purpose: Site Characterization Activities				Date Finished: 04/19/2017 4/20/2017		
Contractor: Odyssey Environmental				Boring Number: MW-12		
Driller: Jeff Zelko				Job Number: 25112		
Inspector: Kevin Cucura				Sheet: 1 of 1		
TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		8:15	10:30	21.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log		Lithologic Description	Notes
---			Moist to 7.0'		0.0' - 5.0'	Gravel Surface
1---			Wet Beyond		Soft dig to 5.0'; 1A modified stone with some sand and silt	
---		0.0				
2---						

3---						
---		0.0				
4---						

5---			Slight Odors		5.0' - 17.0'	
---					Medium brown and dark	
6---		7.0			brown sand and silt with	
---					abundant clay; bedrock at	
7---					17.0'	

8---						

9---		14.0				

10---						

11---						

12---		13.0				

13---						

14---						

15---						

16---		5.0				

17---					17.0' - 18.0'	
---					Gray sandstone	
18---			Hard / Steady		18.0' - 21.0'	
---					Gray sandstone	
19---					Log Approved By:	
---					Martin Gilgallon, P.G.	



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: April 19, 2017

Client: Pump-n-Pantry, Inc.

Date Finished: April 19, 2017

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-13

Driller: Jeff Zelko

Job Number: 25112

Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		13:30	15:30	20.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log		Lithologic Description	Notes
---			Moist to 3.5'		0.0' - 4.0'	Grass Surface
1---		0.0	Wet Beyond		Soft dig to 4.0'; medium brown	
---			No Odor		and dark brown silt and clay	
2---		0.0	No Visual		with sub-angular pebbles and	
---					cobbles	
3---		0.0				

4---		0.0			4.0' - 14.5'	
---					Medium brown silt and sand	
5---		0.0			with abundant clay and	
---					sub-angular pebbles and	
6---		0.0			cobbles; rock at 14.5'	

7---		0.0				

8---		0.0				

9---		0.0				

10---		0.0				

11---		0.0				

12---		0.0				

13---		0.0				

14---		0.0				
---			Hard / Steady		14.5' - 17.0'	
15---		0.0			Gray sandstone	

16---		0.0				

17---		0.0	Soft / Choppy		17.0' - 19.0'	
---					Brown weathered sandstone	
18---		0.0				

19---		0.0	Hard / Steady		19.0' - 20.0'	
---					Gray sandstone	
		0.0			Log Approved By:	
					Martin Gilgallon, P.G.	



LaBella Associates, P.C

TEST BORING LOG

Project: Pump-n-Pantry #001 Property				Soft Dig: Drilling		
Client: Pump-n-Pantry, Inc.				Date Started: 04/19/2017 4/20/2017		
Purpose: Site Characterization Activities				Date Finished: 04/19/2017 4/20/2017		
Contractor: Odyssey Environmental				Boring Number: MW-14		
Driller: Jeff Zelko				Job Number: 25112		
Inspector: Chris Herman (Soft) / Kevin Cucura (Drilling)				Sheet: 1 of 1		
TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		12:10	14:30	20.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				0.0' - 5.0'	Asphalt Surface	
1---		0.0	Dry / Moist to 4.0'	Soft dig to 5.0'; medium brown		
---			Wet Beyond	sand and silt with abundant		
2---		0.0	No Odor	sub-angular pebbles and		
---			No Visual	some clay		
3---						

4---		0.0				

5---		0.0		5.0' - 6.5'		
---				Medium brown sand and silt		
6---				with some sub-angular		
---				pebbles		
7---		0.0				

8---		0.0				

9---		0.0				

10---						

11---			Hard / Steady	Bedrock at 11.0'		
---				Gray sandstone and red		
12---				mudstone interbedded		

13---		0.0				

14---						

15---						

16---						

17---		0.0				

18---						

19---						

		0.0		Log Approved By: Martin Gilgallon, P.G.		



LaBella Associates, P.C.

TEST BORING LOG

Project: Pump-n-Pantry #001 Property

Date Started: September 13, 2017

Client: Pump-n-Pantry, Inc.

Date Finished: September 13, 2017

Purpose: Site Characterization Activities

Contractor: Odyssey Environmental

Boring Number: MW-15

Driller: Fred Bahrenburg

Job Number: 2171845

Inspector: Kevin Cucura

Sheet: 1 of 1

TIME LOG		Begin	Finish	Depth	S.W.L. Elevation TOC	TOC/GL Surface
		10:15	11:30	20.0'		
Dept (feet)	Sample No's	PID (ppm)	Field Assessment Log	Lithologic Description	Notes	
---				Soft dig to 4.5' on 09/12/17	Asphalt Surface	
1---		0.0		Medium gray sand and silt	Auger 10" diameter	
---				with abundant sub-angular	borehole to 4.5'	
2---		0.0		pebbles, cobbles and some		
---				cinder blocks; weathered		
3---		0.0		bedrock at 4.5'		

4---		229	Gassy odor at 4.0'	4.5' - 6.0'	Damp to 4.5'	
---			Soft Choppy Drilling	Weathered gray sandstone	Wet at 4.5'	
5---			4.5' - 7.5'			

6---				6.0' - 16.8'	Drill 6" diameter	
---				Medium gray (N5), fine to	air-rotary borehole	
7---				medium grained sandstone	4.5' - 20.0'	
---			Soft Steady Drilling			
8---			7.5' - 8.5'			
---			Hard Steady Drilling			
9---			8.5' - 9.5'			
---			Very Hard Steady			
10---			Drilling 9.5' - 16.8'			

11---					Rod Change @ 11.0'	
---					Dry	
12---						

13---		85				

14---						

15---						

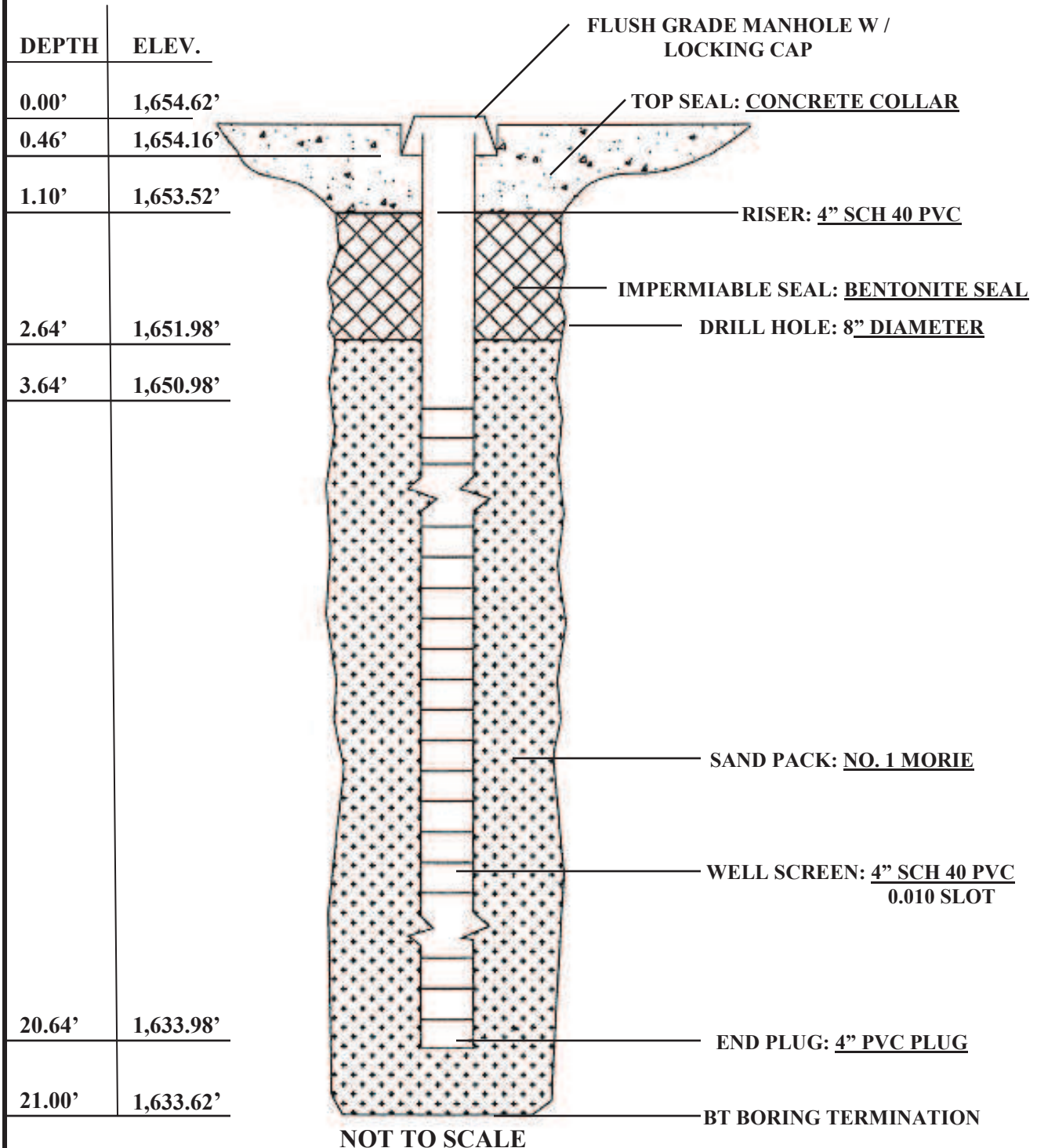
16---				16.8' - 20.0'	Rod Change @ 16.0'	
---				Interbedded medium gray to	Wet	
17---			Soft Steady Drilling	dark gray sandstone with soft		
---			16.8' - 17.0'	interbeds at 16.5' & 19.5'		
18---			Hard Steady Drilling			
---			17.0' - 19.5'			
19---			Soft Steady Drilling	Log Approved By:		
---			19.5' - 20.0'	Martin Gilgallon, P.G.		



ATTACHMENT C

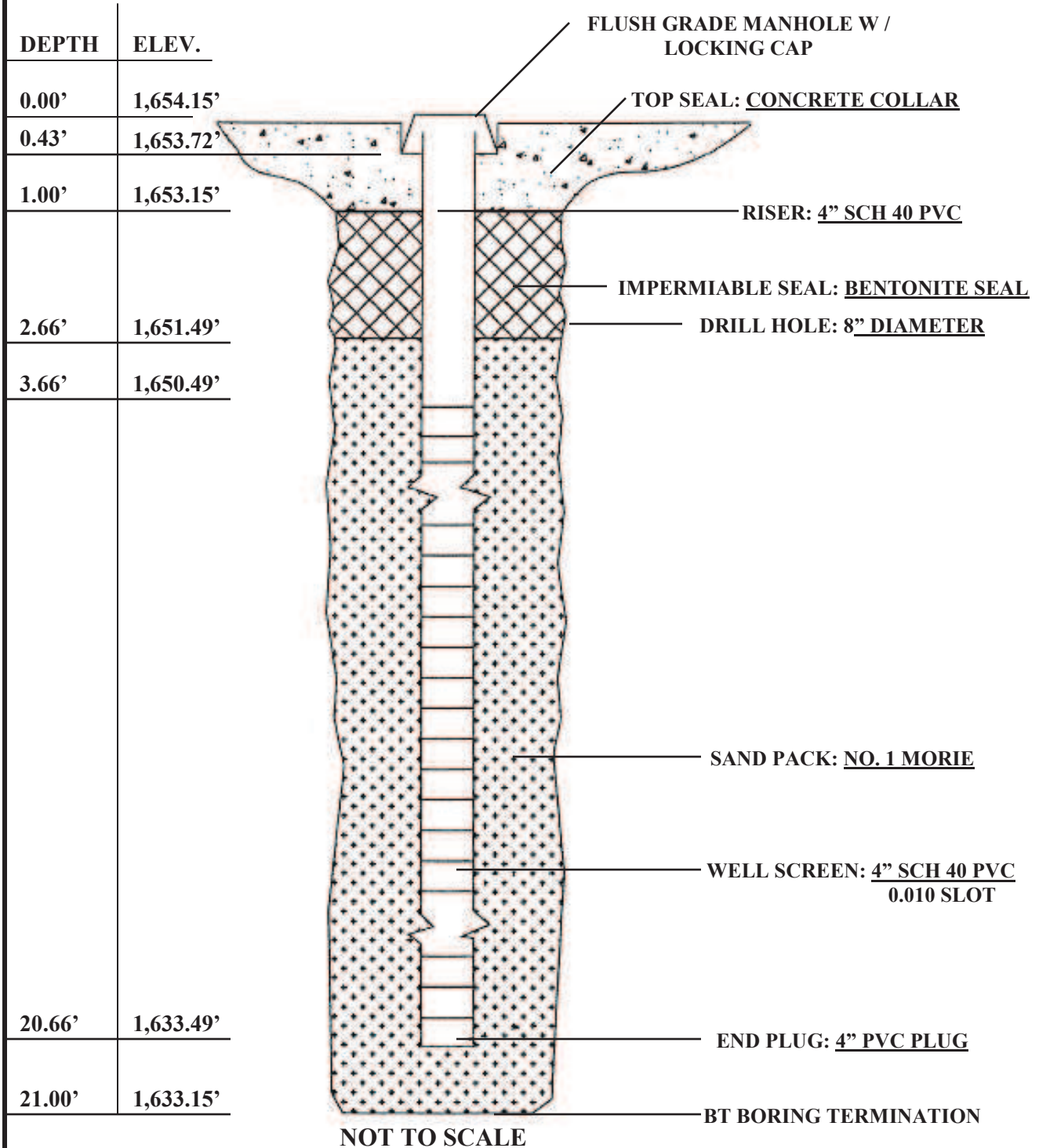
Monitoring Well Construction Details

MONITORING WELL CONSTRUCTION DETAIL



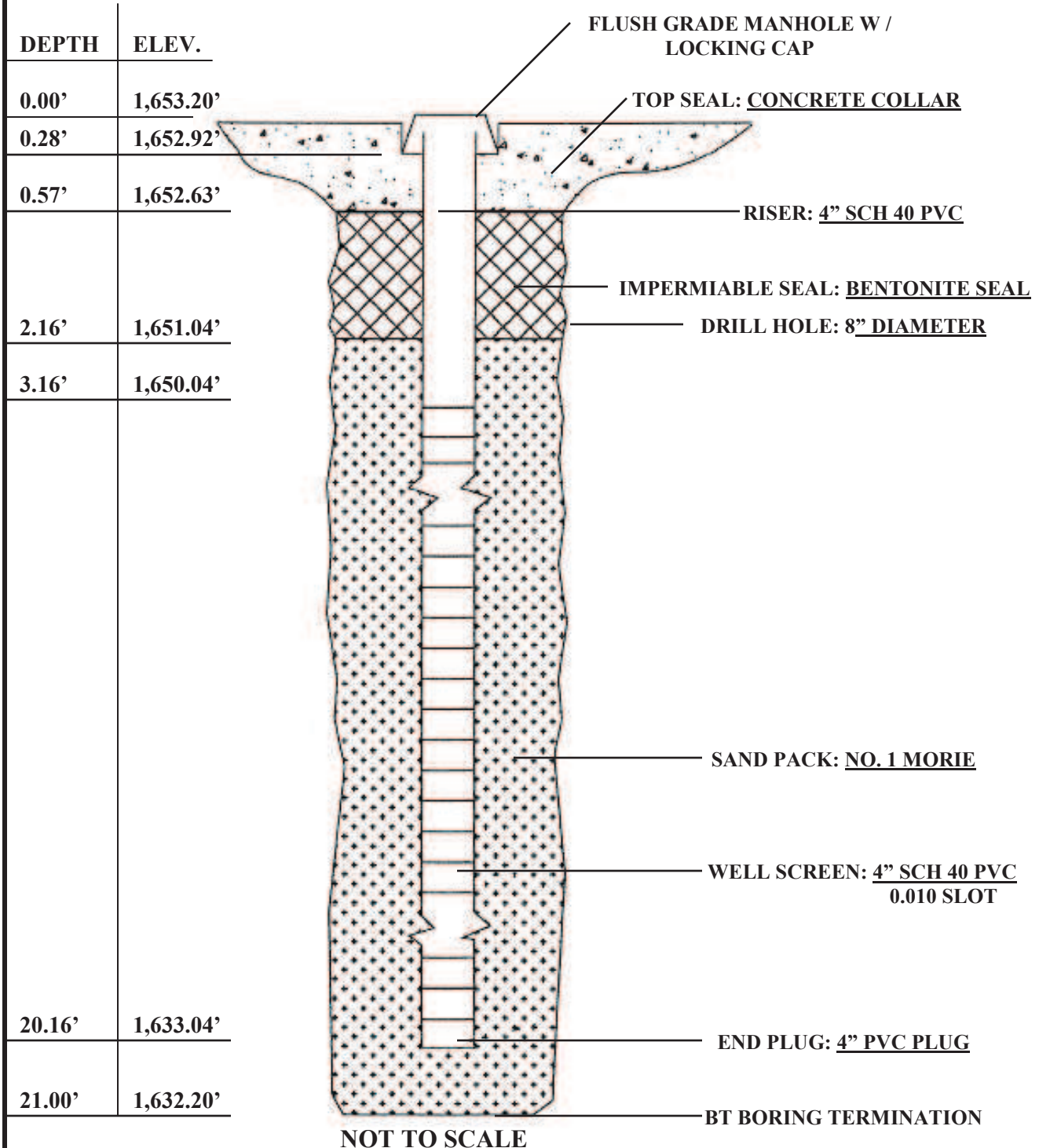
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 1

MONITORING WELL CONSTRUCTION DETAIL



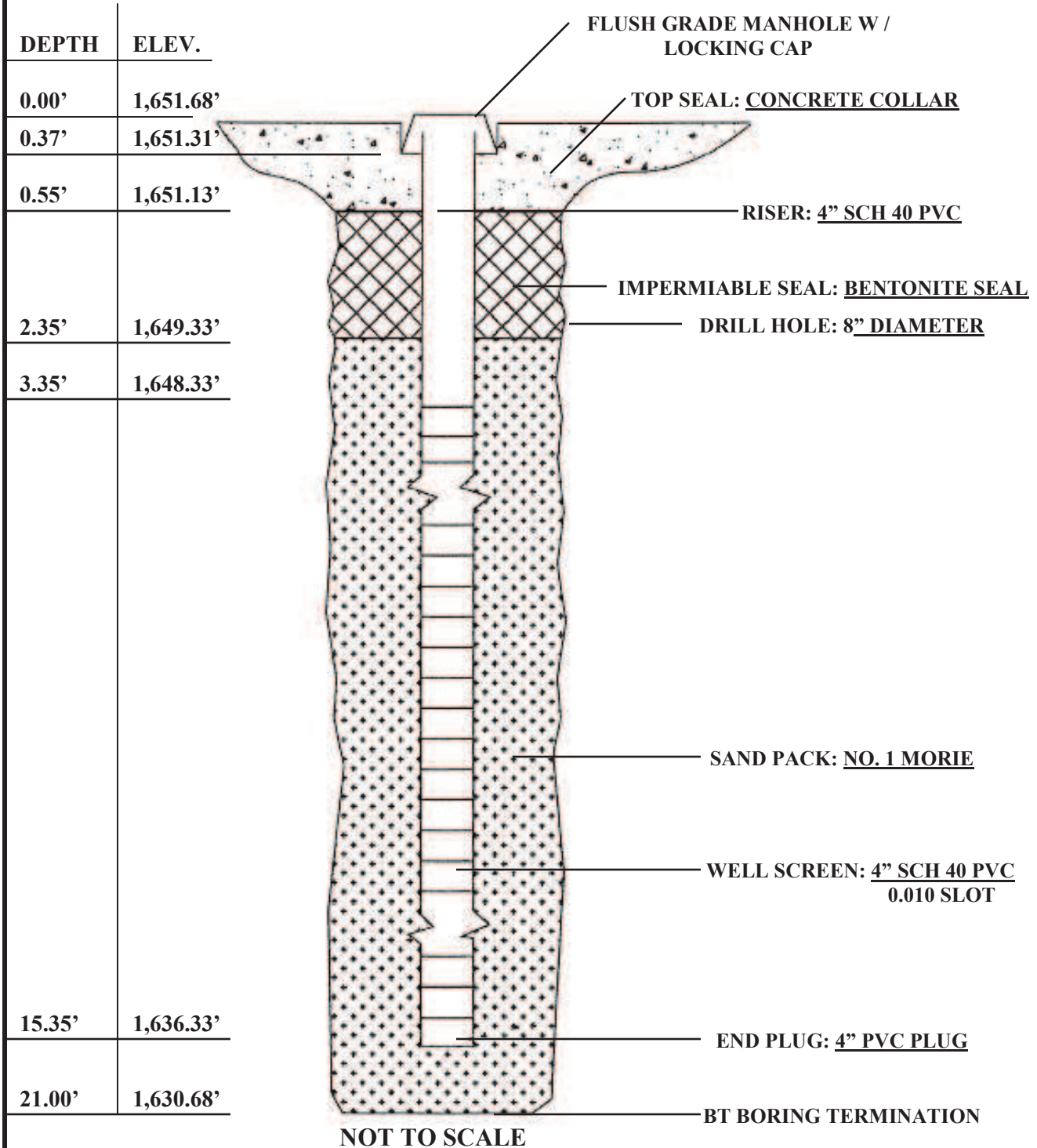
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 2

MONITORING WELL CONSTRUCTION DETAIL



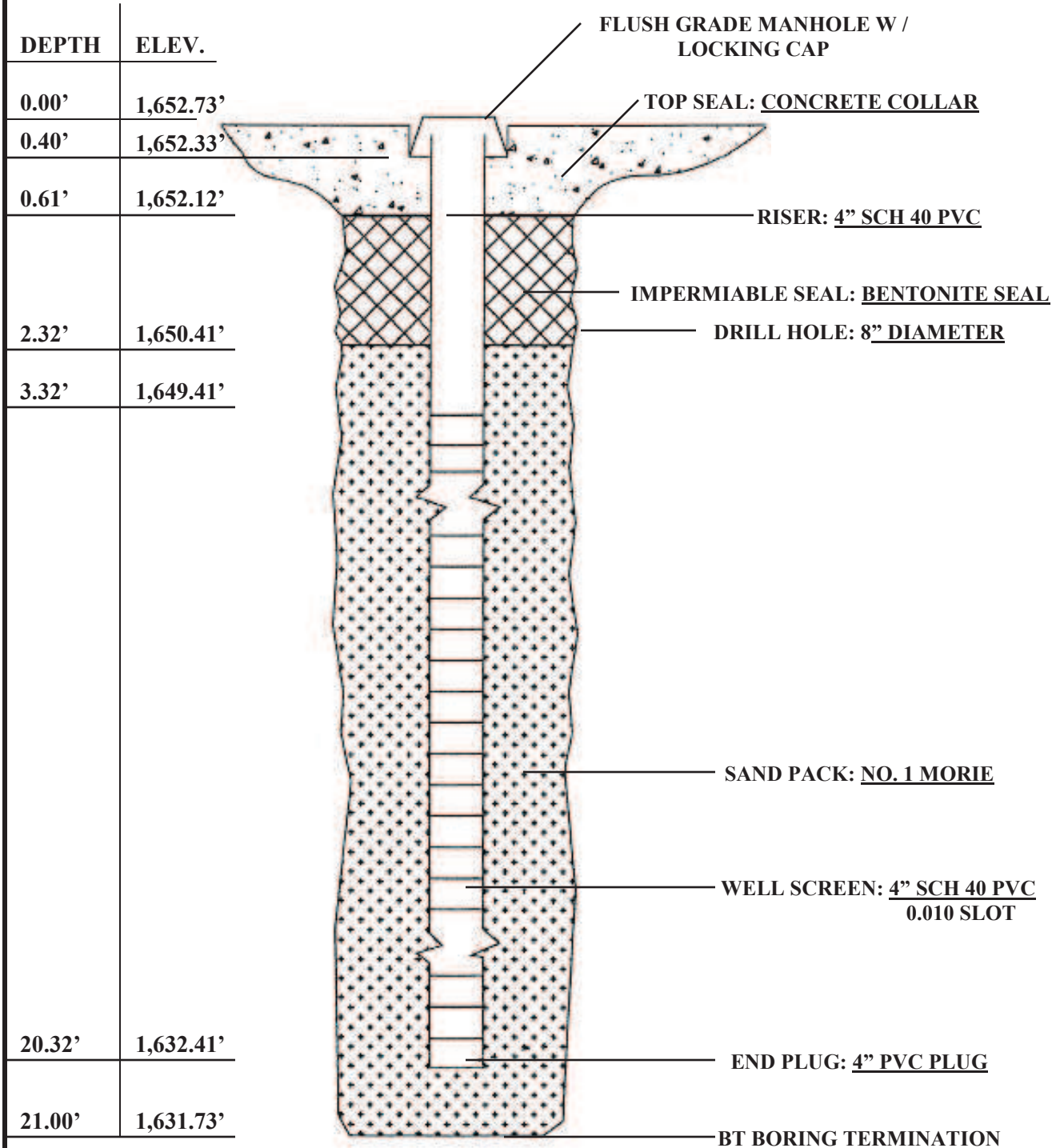
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 3

MONITORING WELL CONSTRUCTION DETAIL



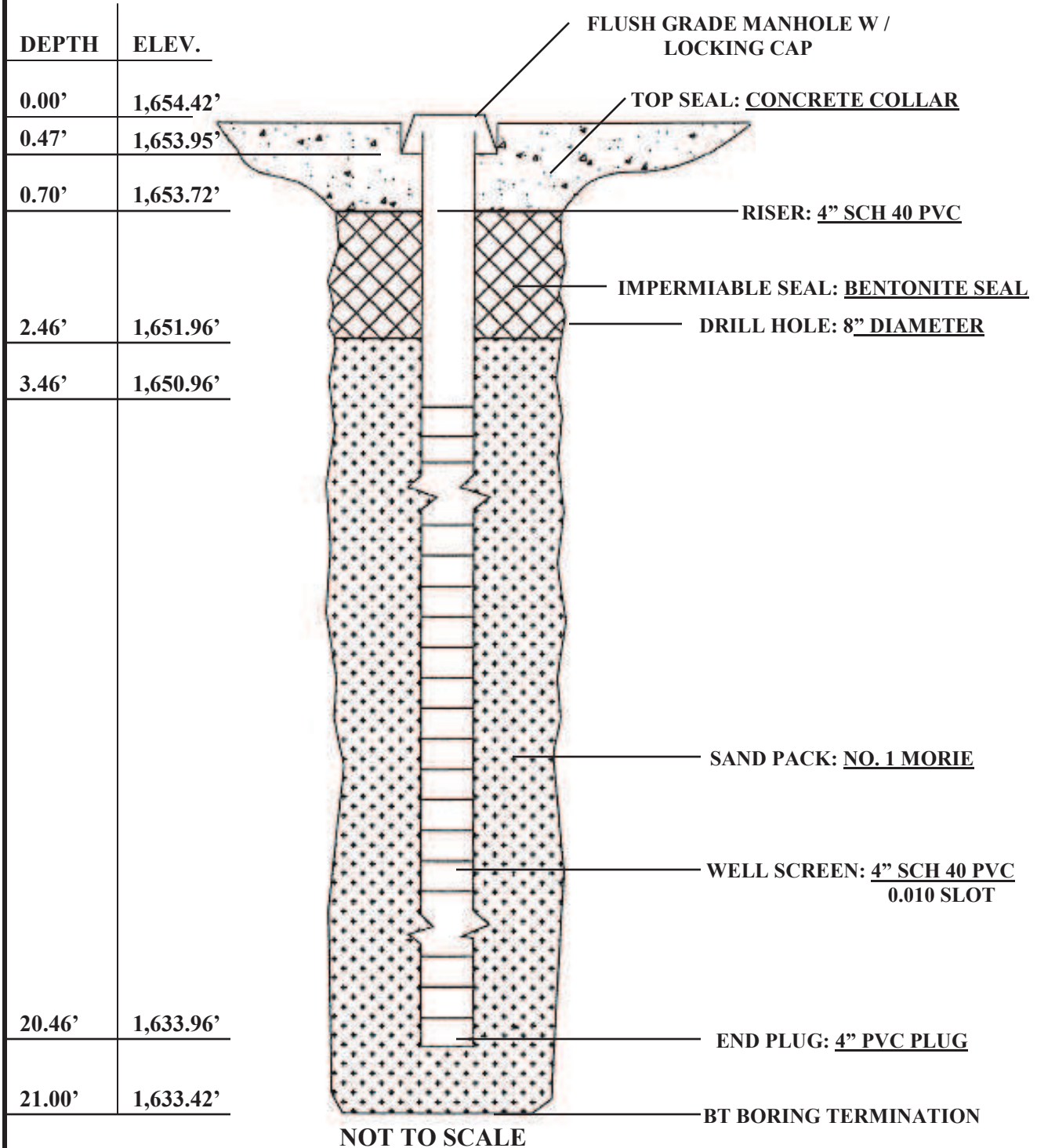
**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 4**

MONITORING WELL CONSTRUCTION DETAIL



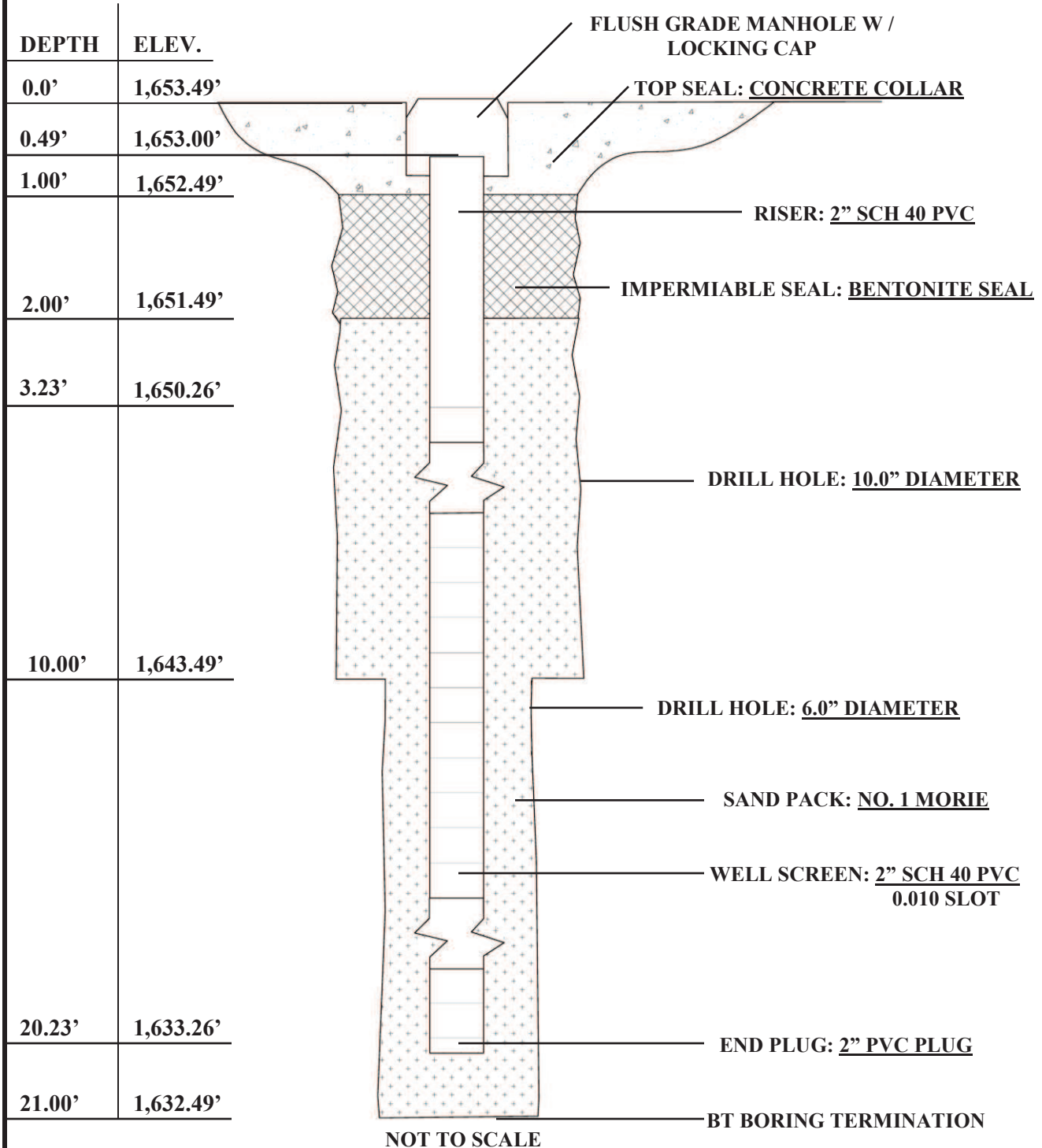
**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 5**

MONITORING WELL CONSTRUCTION DETAIL



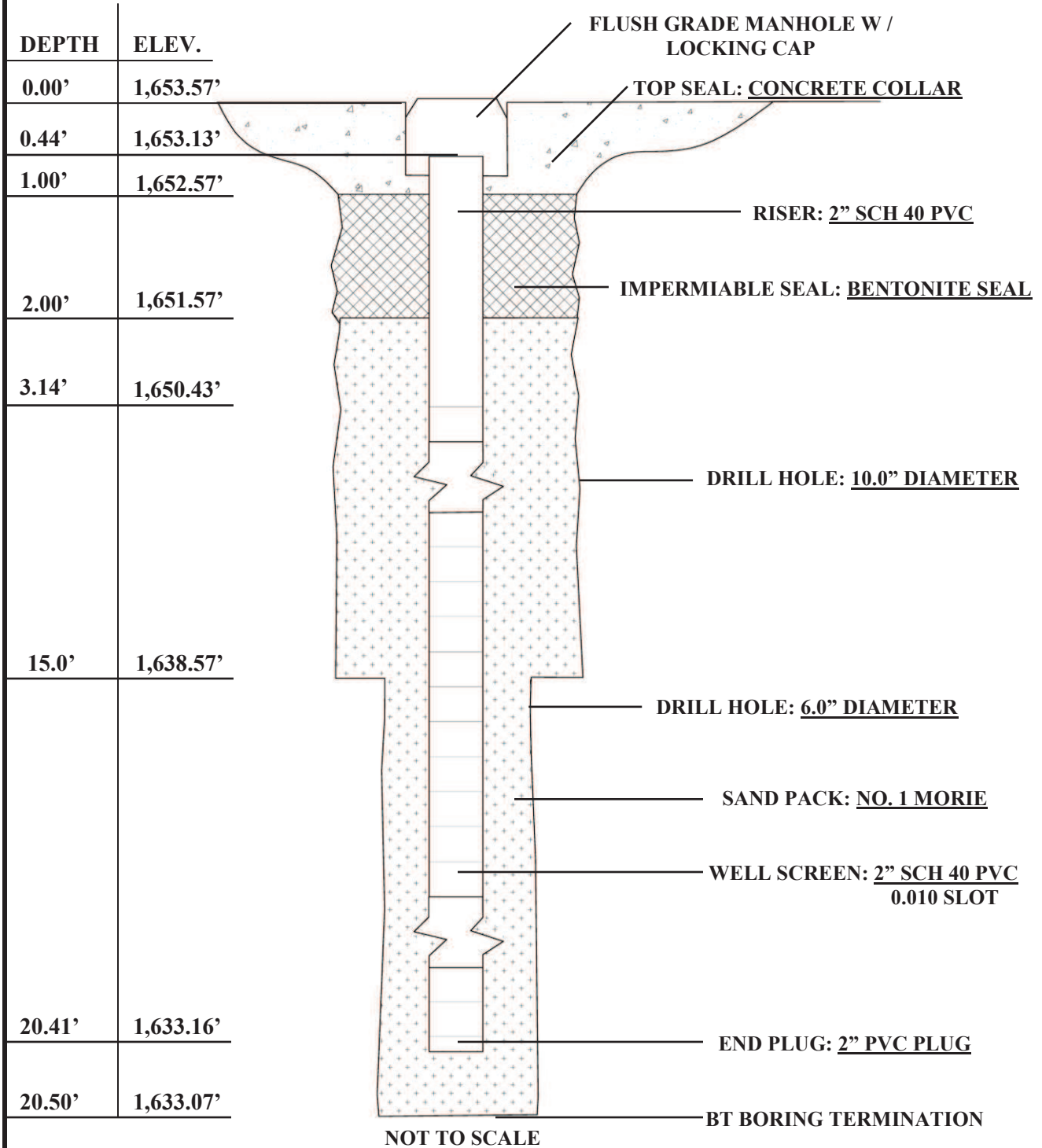
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 6

MONITORING WELL CONSTRUCTION DETAIL



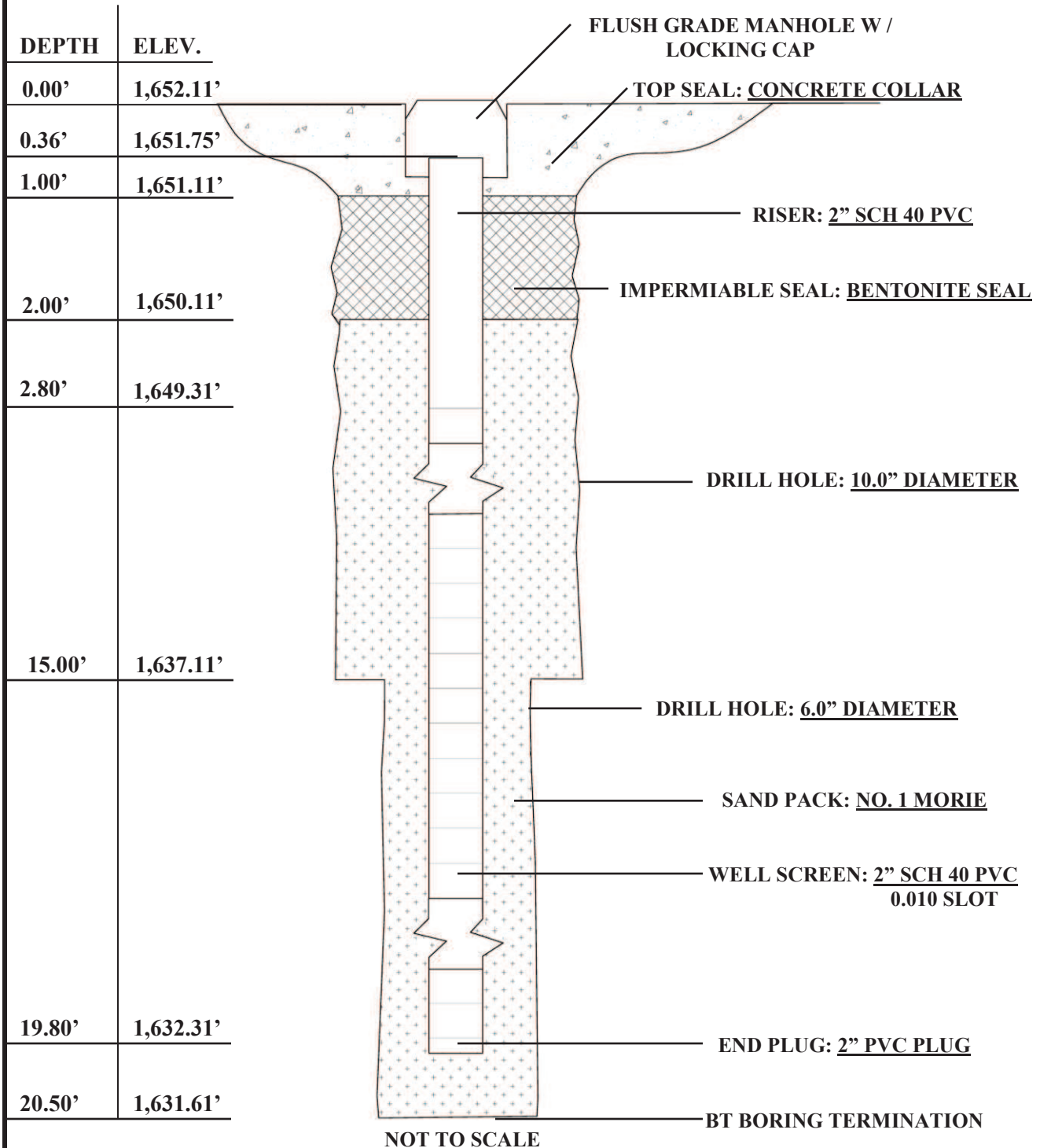
**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 7**

MONITORING WELL CONSTRUCTION DETAIL



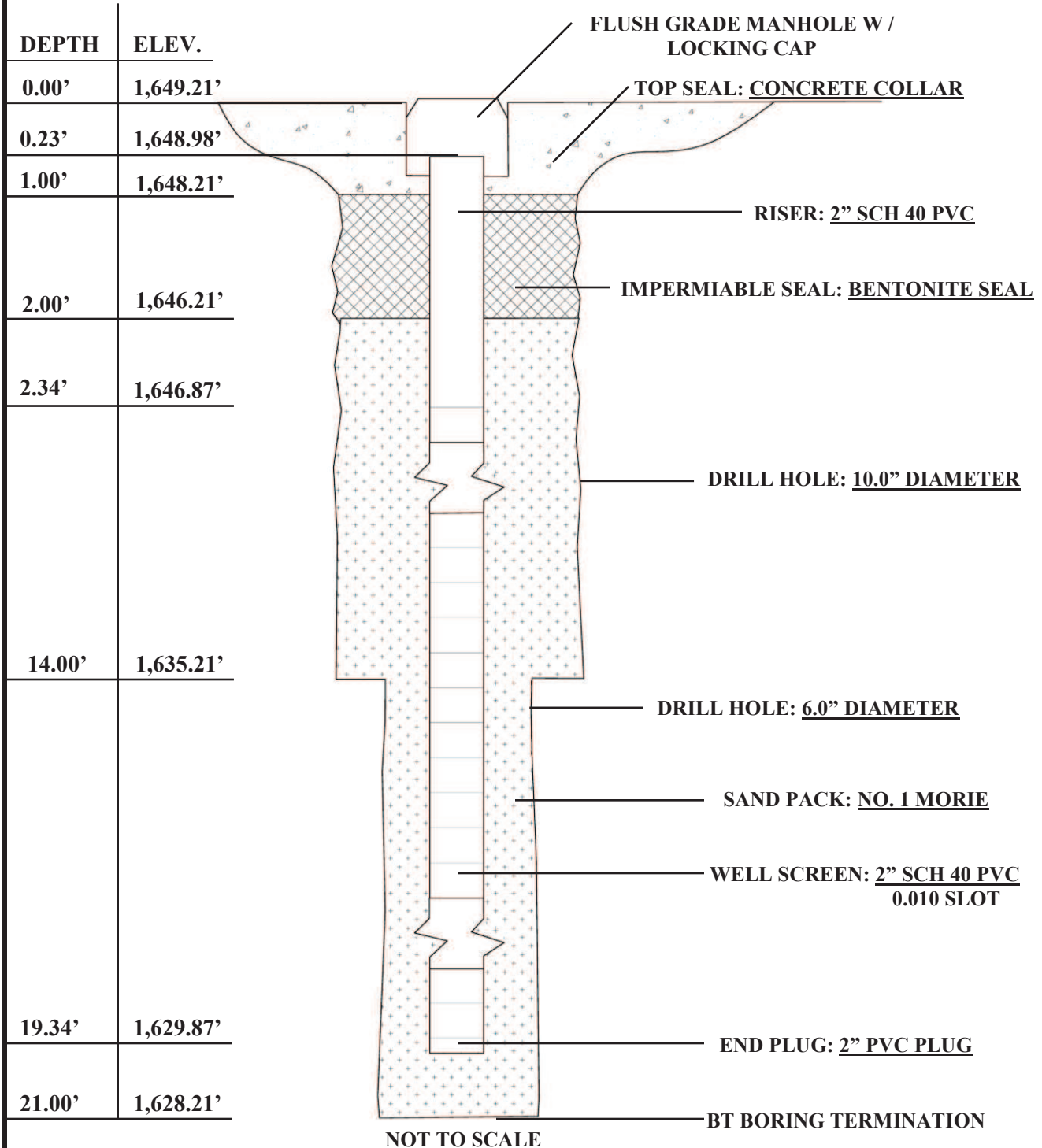
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 8

MONITORING WELL CONSTRUCTION DETAIL



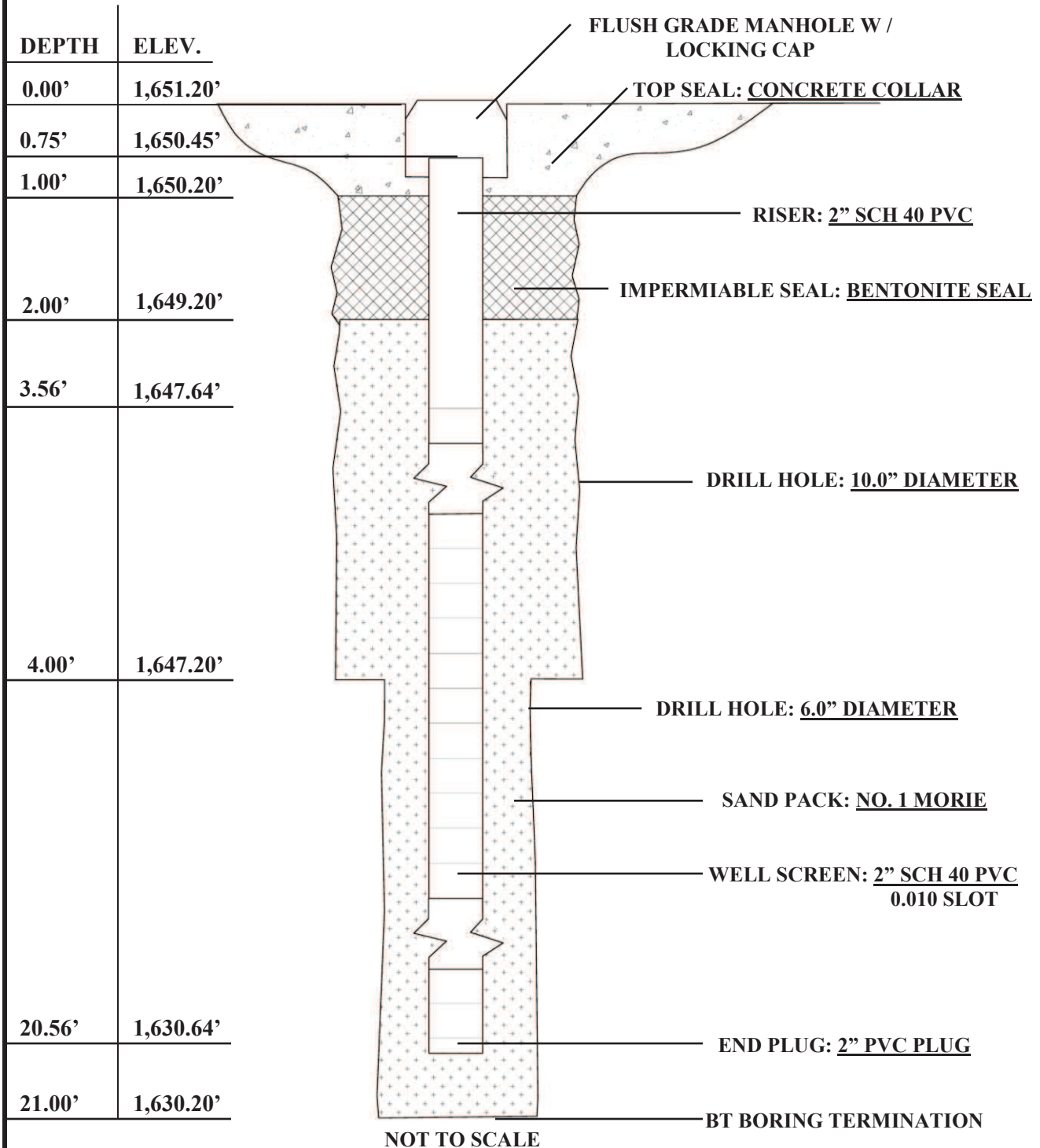
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 9

MONITORING WELL CONSTRUCTION DETAIL



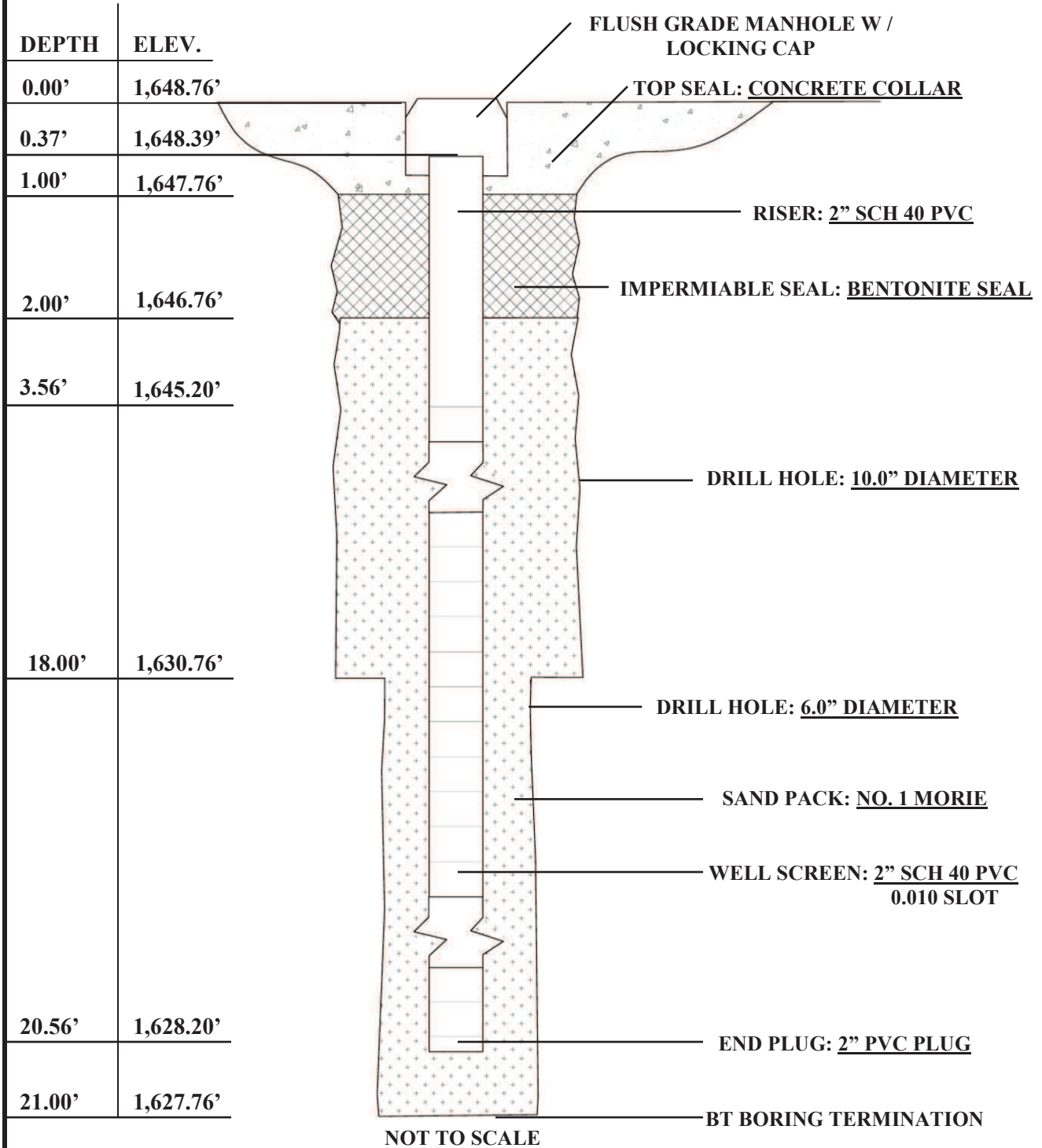
**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 10**

MONITORING WELL CONSTRUCTION DETAIL



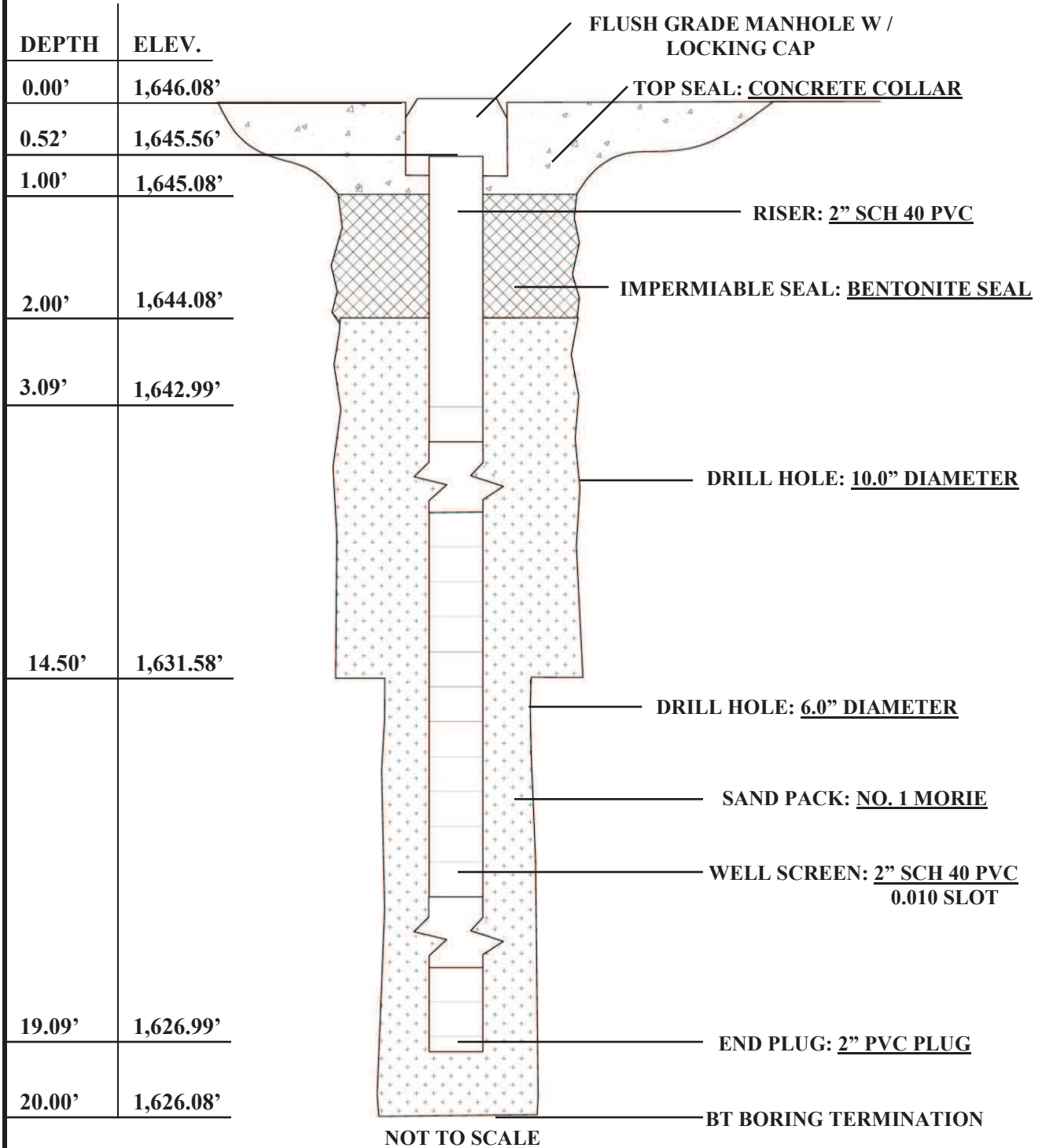
**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 11**

MONITORING WELL CONSTRUCTION DETAIL



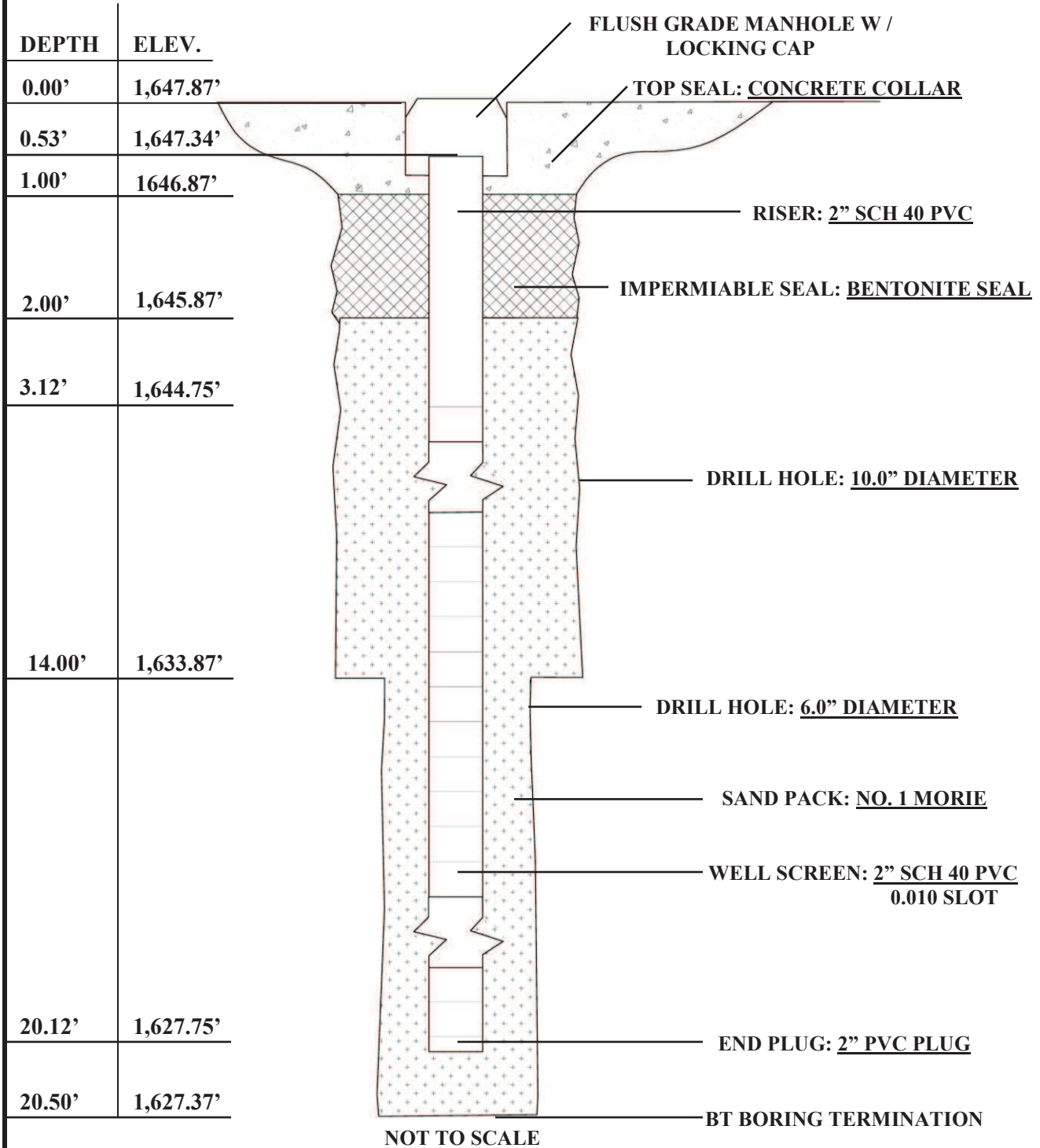
SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 12

MONITORING WELL CONSTRUCTION DETAIL



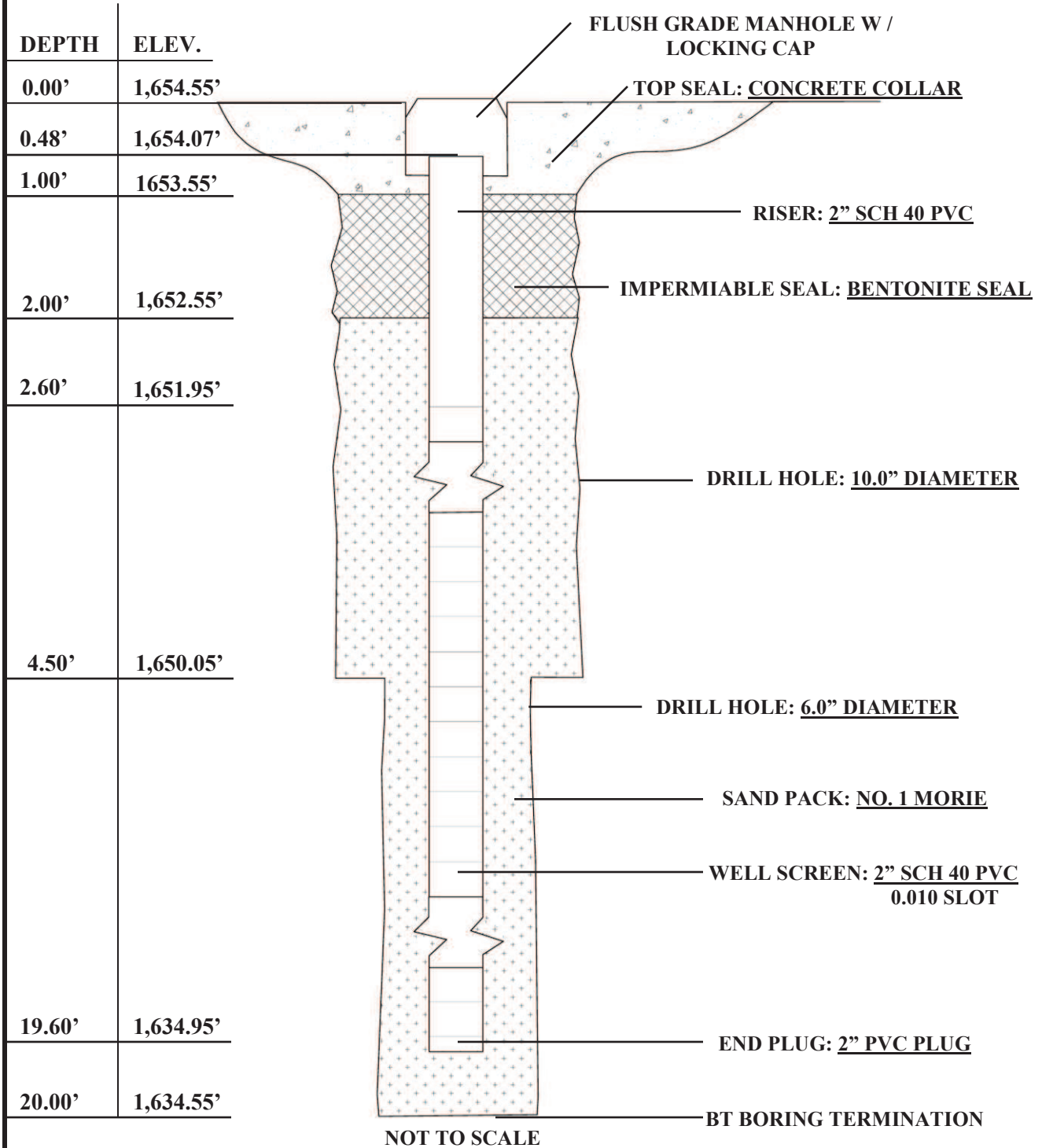
**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 13**

MONITORING WELL CONSTRUCTION DETAIL



**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 14**

MONITORING WELL CONSTRUCTION DETAIL



**SITE CHARACTERIZATION ACTIVITIES
PUMP-N-PANTRY #001 PROPERTY
MONITORING WELL 15**

ATTACHMENT D

Field Notes

Field Notes

TO: File
FROM: Chris Herman
DATE: February 18 - 19, 2019
PROJECT: Pump-n-Pantry #001 / Site Characterization
PROJECT NUMBER: 2171845 / 2171846
SUBJECT: Groundwater Sampling Activities

0915: Arrived onsite and initiated site activities with the collection of static water levels from the fifteen (15) groundwater monitoring wells and four (4) observation wells located onsite. The purpose of the field activities was to collect groundwater samples from the fifteen (15) monitoring wells and four (4) observation wells for laboratory analysis. The general well information is as follows:

Table 1
General Well Information

Well #	S.W.L. (Feet)	Total Depth (Feet)	Pump Depth (Feet)	Rate (L/min.)	Purged (Gallons)
MW-1	2.74	20.18	11.3*	34.0**	18.0
MW-2	4.58	20.22	12.4	0.37	2.0
MW-3	4.39	19.88	9.7	0.50	3.0
MW-4	3.36	14.98	9.2	0.34	2.0
MW-5	4.28	19.92	12.2	0.43	3.0
MW-6	4.49	19.99	12.3	0.43	2.5
MW-7	--	19.74	--	--	--
MW-8	4.38	19.97	12.2	0.43	3.5
MW-9	4.35	19.44	11.9	0.30	2.0
MW-10	5.70	19.11	12.4	0.37	3.5
MW-11	3.56	19.81	11.7	0.32	2.0
MW-12	5.78	20.19	13.0	0.20	2.0
MW-13	2.91	18.57	10.7	0.48	3.0
MW-14	4.20	19.59	11.9	0.26	2.5
MW-15	3.90	19.12	11.5	0.50	2.0
OW-1	3.37	13.05	6.5*	13.5**	10.0
OW-2	3.30	12.25	5.8*	17.5**	15.0
OW-3	4.13	11.42	4.5*	13.5**	14.0
OW-4	4.30	11.11	4.4*	13.2**	14.0
RW-1	--	--	--	--	--

* = 1 volume, ** = 3 volumes in gallons

Note, RW-1 previously destroyed and is no longer included in the sampling activities.

MW-1: MW-1 was not suited for low flow / low stress sampling methods. Therefore, the well was purged and sampled utilizing hand bailing methods. The well was evacuated prior to purging three (3) well volumes. No odorous or visual indications of contamination were observed. A total of 18.0 gallons was extracted from the well.

Table 2
Well Purging Data – MW-1

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1210	6.83	7.25	-133	74.7	0.00	0.25	Clear
1214	7.39	7.30	-105	54.6	0.00	5.0	Clear
1216	6.41	7.26	-83	47.1	0.00	10.0	Clear
1220	6.13	7.24	-78	49.9	0.00	15.0	Clear
1222	5.89	7.29	-74	51.3	0.00	18.0	Evacuated

MW-2: MW-2 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.4'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallon was extracted from the well. Strong odorous and visual indications of contamination were observed.

Table 3
Well Purging Data – MW-2

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1101	6.70	6.66	-137	14.8	1.0	1.29	4.70
1104	6.88	6.70	-138	15.0	0.3	1.44	4.70
1107	6.96	6.73	-135	15.0	77.6	1.75	4.70
1110	6.82	6.73	-132	15.0	99.7	1.48	4.70
1113	6.70	6.73	-130	15.0	136.8	1.22	4.70
1116	6.75	6.74	-129	15.0	144	0.48	4.70

MW-3: MW-3 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 9.7'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 4
Well Purging Data – MW-3

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1007	6.13	6.81	-123	5.40	6.1	0.00	4.44
1010	7.50	6.71	-111	4.50	6.9	0.00	4.44
1013	7.20	6.71	-112	4.45	5.1	0.00	4.44
1016	7.11	6.71	-112	4.44	3.3	0.00	4.44
1019	7.04	6.71	-117	3.94	81.8	0.00	4.44
1022	6.73	6.71	-118	3.76	126	0.00	4.44

MW-4: MW-4 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 9.2'. The well was purged and sampled at 340 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 5
Well Purging Data – MW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1126	4.70	6.79	-129	11.6	0.0	0.75	3.70
1129	4.81	6.81	-139	9.59	0.0	0.51	3.70
1132	5.16	6.84	-156	8.01	0.0	0.04	3.70
1135	5.16	6.86	-162	7.66	169	0.00	3.70
1138	5.41	6.84	-166	7.60	254	0.00	3.70
1141	5.25	6.86	-167	7.57	312	0.00	3.70

MW-5: MW-5 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.2'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. Odorous indications of contamination were observed.

Table 6
Well Purging Data – MW-5

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0927	6.35	7.04	-111	12.5	11.0	0.00	4.40
0930	6.69	6.90	-129	12.3	4.7	0.00	4.40
0933	6.74	6.86	-157	12.3	49.3	0.00	4.40
0936	6.82	6.86	-160	12.3	1.2	0.00	4.40
0939	6.86	6.86	-164	12.3	0.0	0.00	4.40
0942	6.89	6.86	-166	12.2	0.0	0.00	4.40

MW-6: MW-6 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.3'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 7
Well Purging Data – MW-6

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0854	6.44	8.24	137	13.9	41.5	0.00	5.00
0857	5.98	8.23	141	14.0	40.8	0.00	5.00
0900	5.91	8.23	145	14.0	40.4	0.00	5.00
0903	5.62	8.23	160	14.0	25.6	0.00	5.00
0906	5.48	8.20	175	14.1	20.7	0.00	5.00
0909	5.20	8.23	187	14.1	16.0	0.00	5.00

MW-7: MW-7 was not accessible at the time of the February 2019 groundwater sampling event.

MW-8: MW-8 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.2'. The well was purged and sampled at 430 ml / min. The well maintained steady recharge during the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 8
Well Purging Data – MW-8

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1325	7.80	6.29	126	0.908	322	0.00	4.49
1328	8.12	6.29	126	0.893	649	0.00	4.49
1331	9.63	6.31	119	0.808	54.9	0.00	4.49
1334	10.21	6.31	121	0.766	41.4	0.00	4.49
1337	10.44	6.31	123	0.723	94.4	0.00	4.49
1340	10.46	6.31	127	0.707	26.2	0.00	4.49
1343	10.55	6.32	128	0.696	42.2	0.00	4.49
1346	10.58	6.31	129	0.696	32.2	0.00	4.49
1349	10.59	6.31	129	0.696	16.9	0.00	4.49

MW-9: MW-9 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.9'. The well was purged and sampled at 300 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 9
Well Purging Data – MW-9

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1341	6.56	5.87	231	0.394	0.0	12.73	4.50
1344	6.30	5.83	233	0.392	0.0	12.39	4.50
1347	6.24	5.78	234	0.392	0.0	11.70	4.50
1350	6.12	5.75	236	0.392	0.0	11.27	4.50
1353	6.11	5.81	231	0.392	0.0	10.73	4.50
1356	6.12	5.81	229	0.392	0.0	10.29	4.50
1359	6.34	5.82	228	0.396	0.0	9.84	4.50

MW-10: MW-10 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 12.4'. The well was purged and sampled at 370 ml / min. The well maintained steady recharge during the purging activities. A total of 3.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 10
Well Purging Data – MW-10

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1128	6.68	6.52	-21	14.4	813	0.00	6.00
1131	6.93	6.52	-9	14.8	783	0.00	6.00
1134	7.93	6.53	14	15.1	549	0.00	6.00
1137	8.57	6.54	19	15.2	349	0.00	6.00
1140	9.09	6.53	24	14.7	247	0.00	6.00
1143	9.16	6.49	31	13.9	172	0.00	6.00
1146	9.22	6.42	40	12.6	101	0.00	6.00
1149	9.76	6.38	46	11.7	53.4	0.00	6.00
1152	9.94	6.36	49	11.4	42.0	0.00	6.00
1155	9.95	6.34	53	11.0	32.5	0.00	6.00

MW-11: MW-11 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.7'. The well was purged and sampled at 320 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Odorous and visual indications of contamination were observed.

Table 11
Well Purging Data – MW-11

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1242	7.15	6.69	88	0.312	937	0.00	3.76
1245	7.17	6.70	90	0.220	1000	0.00	3.76
1248	7.42	6.61	115	0.146	0.0	0.00	3.76
1251	7.26	6.60	126	0.145	0.0	0.00	3.76
1254	7.43	6.59	130	0.145	953	0.00	3.76
1257	7.60	6.59	135	0.142	791	0.00	3.76
1300	7.89	6.49	141	0.281	464	0.00	3.76
1303	7.86	6.51	136	0.367	282	0.00	3.76

MW-12: MW-12 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 13.0'. The well was purged and sampled at 200 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 12
Well Purging Data – MW-12

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1046	7.03	6.37	-58	9.20	554	0.00	5.86
1049	7.66	6.39	-69	9.19	970	0.00	5.86
1052	8.35	6.41	-33	9.21	1000	0.00	5.86
1055	8.74	6.40	-32	9.22	994	0.00	5.86
1058	9.08	6.42	-53	9.19	753	0.00	5.86
1101	9.27	6.45	-62	9.04	521	0.00	5.86
1104	9.43	6.45	-66	8.84	389	0.00	5.86
1107	9.52	6.45	-67	8.62	300	0.00	5.86

MW-13: MW-13 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 10.7'. The well was purged and sampled at 480 ml / min. The well maintained steady recharge during the purging activities. A total of 3.0 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 13
Well Purging Data – MW-13

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0957	8.79	6.14	146	4.24	1000	0.00	3.00
1000	8.91	6.14	144	4.27	1000	0.00	3.00
1004	8.97	6.13	135	4.32	822	0.00	3.00
1007	9.10	6.13	130	4.35	1000	0.00	3.00
1010	9.12	6.13	130	4.35	1000	0.00	3.00
1013	9.47	6.14	130	4.40	707	0.00	3.00

MW-14: MW-14 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.9'. The well was purged and sampled at 260 ml / min. The well maintained steady recharge during the purging activities. A total of 2.5 gallons was extracted from the well. No odorous or visual indications of contamination were observed.

Table 14
Well Purging Data – MW-14

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
0928	8.90	6.41	44	0.346	252	6.40	4.30
0931	8.65	6.31	60	0.351	217	5.57	4.30
0934	8.88	6.24	78	0.349	189	4.58	4.30
0937	9.01	6.18	108	0.396	60.7	3.74	4.30
0940	8.99	6.18	117	0.417	41.4	3.64	4.30
0943	8.93	6.17	123	0.422	34.6	3.44	4.30

MW-15: MW-15 was purged and sampled utilizing low flow / low stress sampling methods (*ASTM D 6771-02*). The pump was set at 11.5'. The well was purged and sampled at 500 ml / min. The well maintained steady recharge during the purging activities. A total of 2.0 gallons was extracted from the well. Strong odorous indications of contamination were observed.

Table 15
Well Purging Data – MW-15

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Depth to Water (Feet)
1037	6.23	6.50	-109	10.2	29.7	0.00	4.00
1040	5.82	6.49	-110	11.5	0.0	0.00	4.00
1043	5.54	6.50	-112	11.6	3.2	0.00	4.00
1046	5.25	6.51	-117	11.7	2.9	0.00	4.00
1049	4.95	6.52	-118	11.7	2.4	0.00	4.00
1052	4.92	6.53	-124	11.8	13.8	0.00	4.00

OW-1: OW-1 was purged and sampled utilizing hand bailing methods. Three (3) well volumes were calculated. No odorous or visual indications of contamination were observed. A total of 10.0 gallons was extracted from the well.

Table 16
Well Purging Data – OW-1

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1440	3.51	7.56	68	5.50	3.55	0.25	Clear
1442	3.62	7.51	70	6.32	0.00	5.0	Clear
1444	3.69	7.49	73	7.21	0.00	10.0	Clear

OW-2: OW-2 was purged and sampled utilizing hand bailing methods. Three (3) well volumes were calculated. No odorous or visual indications of contamination were observed. A total of 15.0 gallons was extracted from the well.

Table 17
Well Purging Data – OW-2

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1427	1.70	7.92	56	3.92	1.20	0.25	Clear
1429	2.25	7.46	75	12.9	1.14	5.0	Clear
1431	3.01	7.51	73	9.57	0.00	10.0	Clear
1433	3.73	7.46	76	10.9	0.00	15.0	Clear

OW-3: OW-3 was purged and sampled utilizing hand bailing methods. Three (3) well volumes were calculated. No odorous or visual indications of contamination were observed. A total of 14.0 gallons was extracted from the well.

Table 18
Well Purging Data – OW-3

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1333	3.16	7.31	40	7.25	0.00	0.25	Very Silty
1334	3.90	7.45	30	4.38	0.00	5.0	Clear
1335	4.21	7.46	33	3.95	0.00	10.0	Clear
1336	3.32	7.52	42	3.99	0.00	14.0	Clear

OW-4: OW-4 was purged and sampled utilizing hand bailing methods. Three (3) well volumes were calculated. No odorous or visual indications of contamination were observed. A total of 14.0 gallons was extracted from the well.

Table 19
Well Purging Data – OW-4

Time	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	D.O. (mg/L)	Gallons	Comment
1243	5.58	7.82	-54	8.08	1.69	0.25	Cloudy
1246	5.32	7.34	-26	3.56	0.00	5.0	Clear
1247	5.22	7.27	-6	3.18	0.00	10.0	Clear
1248	5.17	7.27	-1	3.13	3.92	14.0	Clear

RW-1: RW-1 was previously destroyed by on-site snow plowing activities, compromised and not sampled at this time.

Table 20
Final Sample Data Summary

Well #	Temp. (°C)	pH (SU)	ORP (mV)	Conductivity (mS/cm)	Turbidity (NTU)	D.O. (mg/L)	Level (Feet)
MW-1	8.32	7.38	-119	71.2	--	3.16	13.65
MW-2	6.75	6.74	-129	15.0	144	0.48	4.70
MW-3	6.73	6.71	-118	3.76	126	0.00	4.44
MW-4	5.25	6.86	-167	7.57	312	0.00	3.70
MW-5	6.89	6.86	-166	12.2	0.0	0.00	4.40
MW-6	5.20	8.23	187	14.1	16.0	0.00	5.00
MW-7	--	--	--	--	--	--	--
MW-8	10.59	6.31	129	0.696	16.9	0.00	4.49
MW-9	6.34	5.82	228	0.396	0.0	9.84	4.50
MW-10	9.95	6.34	53	11.0	32.5	0.00	6.00
MW-11	7.86	6.51	136	0.367	282	0.00	3.76
MW-12	9.52	6.45	-67	8.62	300	0.00	5.86
MW-13	9.47	6.14	130	4.40	707	0.00	3.00
MW-14	8.93	6.17	123	0.422	34.6	3.44	4.30
MW-15	4.92	6.53	-124	11.8	13.8	0.00	4.00
OW-1	3.69	7.46	73	7.76	--	0.00	3.52
OW-2	4.32	7.37	79	11.0	--	0.00	3.47
OW-3	3.12	7.42	33	4.07	--	0.00	4.20
OW-4	5.43	7.23	18	5.02	--	0.00	4.25
RW-1	--	--	--	--	--	--	--

Table 21
Metals Data Summary

Well #	Manganese (mg/L)	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-1	--	--	--	--
MW-2	--	--	--	--
MW-3	--	--	--	--
MW-4	--	--	--	--
MW-5	1.7	0.11	0.8	56
MW-6	15.2	>3.00	2.8	27
MW-7	NS	NS	NS	NS
MW-8	0.7	0.00	2.3	13
MW-9	1.3	0.05	5.1	15
MW-10	17.8	0.16	1.0	71
MW-11	--	--	--	--
MW-12	--	--	--	--
MW-13	--	--	--	--
MW-14	0.8	0.07	2.4	8
MW-15	10.2	2.37	5.0	>70
OW-1	--	--	--	--
OW-2	--	--	--	--
OW-3	--	--	--	--
OW-4	--	--	--	--
RW-1	--	--	--	--

Table 22
Sample Log

Well #	Time	Date
112-0218-MW1	1300	02.19.2019
112-0218-MW2	1120	02.19.2019
112-0218-MW3	1030	02.19.2019
112-0218-MW4	1200	02.19.2019
112-0218-MW5	0945	02.19.2019
112-0218-MW6	0910	02.19.2019
112-0218-MW7	NS	NS
112-0218-MW8	1350	02.18.2019
112-0218-MW9	1400	02.18.2019
112-0218-MW10	1158	02.18.2019
112-0218-MW11	1305	02.18.2019
112-0218-MW12	1110	02.18.2019
112-0218-MW13	1016	02.18.2019
112-0218-MW14	0946	02.18.2019
112-0218-MW15	1100	02.19.2019
112-0218-FB1	1020	02.18.2019
112-0218-FB2	1200	02.19.2019
112-0218-OW1	1425	02.19.2019
112-0218-OW2	1415	02.19.2019
112-0218-OW3	1315	02.19.2019
112-0218-OW4	1400	02.19.2019
112-0218-RW1	NS	NS

Day 1:
0915: Onsite
1420: Offsite

Day 2:
0838: Onsite
1500: Offsite

SN / mg

ATTACHMENT E

Groundwater Elevation Data Summary Tables

NM **Not Measured**

NA **Not Applicable**

	NM	Not Measured
	NA	Not Applicable

NM **Not Measured**
NA **Not Applicable**

NM Not Measured
NA Not Applicable

ATTACHMENT F

Groundwater Contour Maps

ATTACHMENT G

Laboratory Analytical Data Sheets

February 28, 2019

Mr. Marty Gilgallon
LaBella-Dunmore
1000 Dunham Drive
Suite B
Scranton, PA 18512

Certificate of Analysis

Project Name:	Pump N Pantry	Workorder:	3017985
Purchase Order:		Workorder ID:	Pump N Pantry

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 22, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matthew Morell, Mr. Kevin Cucura

*This page is included as part of the Analytical Report and
must be retained as a permanent record thereof.*



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Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 3017985 Pump N Pantry

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3017985001	112-0218-MW1	Ground Water	2/19/2019 13:00	2/22/2019 09:38	Collected by Client
3017985002	112-0218-MW2	Ground Water	2/19/2019 11:20	2/22/2019 09:38	Collected by Client
3017985003	112-0218-MW3	Ground Water	2/19/2019 10:30	2/22/2019 09:38	Collected by Client
3017985004	112-0218-MW4	Ground Water	2/19/2019 12:00	2/22/2019 09:38	Collected by Client
3017985005	112-0218-MW5	Ground Water	2/19/2019 09:45	2/22/2019 09:38	Collected by Client
3017985006	112-0218-MW6	Ground Water	2/19/2019 09:10	2/22/2019 09:38	Collected by Client
3017985007	112-0218-MW8	Ground Water	2/18/2019 13:50	2/22/2019 09:38	Collected by Client
3017985008	112-0218-MW9	Ground Water	2/18/2019 14:00	2/22/2019 09:38	Collected by Client
3017985009	112-0218-MW10	Ground Water	2/18/2019 11:58	2/22/2019 09:38	Collected by Client
3017985010	112-0218-MW15	Ground Water	2/19/2019 11:00	2/22/2019 09:38	Collected by Client
3017985011	112-0218-FB1	Ground Water	2/18/2019 10:20	2/22/2019 09:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3017985 Pump N Pantry

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985001**
Sample ID: **112-0218-MW1**

Date Collected: 2/19/2019 13:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 03:55	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 03:55	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:55	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	129		%	62 - 133	SW846 8260B			2/27/19 03:55	PDK	A
4-Bromofluorobenzene (S)	84.5		%	79 - 114	SW846 8260B			2/27/19 03:55	PDK	A
Dibromofluoromethane (S)	125	1	%	78 - 116	SW846 8260B			2/27/19 03:55	PDK	A
Toluene-d8 (S)	91.4		%	76 - 127	SW846 8260B			2/27/19 03:55	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985002**
Sample ID: **112-0218-MW2**

Date Collected: 2/19/2019 11:20 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	30.2		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Ethylbenzene	91.6		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Isopropylbenzene	10.2		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Naphthalene	11.5		ug/L	2.0	SW846 8260B			2/27/19 20:25	TMP	B
Toluene	8.5		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
Total Xylenes	35.3		ug/L	3.0	SW846 8260B			2/27/19 20:25	TMP	B
1,2,4-Trimethylbenzene	90.0		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:25	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B			2/27/19 20:25	TMP	B
4-Bromofluorobenzene (S)	103		%	79 - 114	SW846 8260B			2/27/19 20:25	TMP	B
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B			2/27/19 20:25	TMP	B
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B			2/27/19 20:25	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985003**
Sample ID: **112-0218-MW3**

Date Collected: 2/19/2019 10:30 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	38.0		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Ethylbenzene	76.7		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Isopropylbenzene	11.2		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 19:40	TMP	B
Toluene	2.5		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 19:40	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:40	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B			2/27/19 19:40	TMP	B
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B			2/27/19 19:40	TMP	B
Dibromofluoromethane (S)	96.3		%	78 - 116	SW846 8260B			2/27/19 19:40	TMP	B
Toluene-d8 (S)	102		%	76 - 127	SW846 8260B			2/27/19 19:40	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985004**
Sample ID: **112-0218-MW4**

Date Collected: 2/19/2019 12:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	465	2	ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Ethylbenzene	649		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Isopropylbenzene	54.3		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Naphthalene	89.5		ug/L	10.0	SW846 8260B			2/27/19 20:47	TMP	B
Toluene	78.8		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
Total Xylenes	427		ug/L	15.0	SW846 8260B			2/27/19 20:47	TMP	B
1,2,4-Trimethylbenzene	298		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
1,3,5-Trimethylbenzene	57.4		ug/L	5.0	SW846 8260B			2/27/19 20:47	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62 - 133	SW846 8260B			2/27/19 20:47	TMP	B
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B			2/27/19 20:47	TMP	B
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B			2/27/19 20:47	TMP	B
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B			2/27/19 20:47	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985005**
Sample ID: **112-0218-MW5**

Date Collected: 2/19/2019 09:45 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	101	2	ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Ethylbenzene	115		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Isopropylbenzene	24.4		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Methyl t-Butyl Ether	12.6		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Naphthalene	19.6		ug/L	10.0	SW846 8260B			2/27/19 21:10	TMP	B
Toluene	6.9		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
Total Xylenes	ND		ug/L	15.0	SW846 8260B			2/27/19 21:10	TMP	B
1,2,4-Trimethylbenzene	10.5		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			2/27/19 21:10	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62 - 133	SW846 8260B			2/27/19 21:10	TMP	B
4-Bromofluorobenzene (S)	100		%	79 - 114	SW846 8260B			2/27/19 21:10	TMP	B
Dibromofluoromethane (S)	94.4		%	78 - 116	SW846 8260B			2/27/19 21:10	TMP	B
Toluene-d8 (S)	101		%	76 - 127	SW846 8260B			2/27/19 21:10	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985006**
Sample ID: **112-0218-MW6**

Date Collected: 2/19/2019 09:10 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 20:02	TMP	B
Toluene	1.7		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 20:02	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 20:02	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	112		%	62 - 133	SW846 8260B			2/27/19 20:02	TMP	B
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B			2/27/19 20:02	TMP	B
Dibromofluoromethane (S)	97.1		%	78 - 116	SW846 8260B			2/27/19 20:02	TMP	B
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B			2/27/19 20:02	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985007**
Sample ID: **112-0218-MW8**

Date Collected: 2/18/2019 13:50 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND	2	ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 05:04	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 05:04	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:04	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	125		%	62 - 133	SW846 8260B			2/27/19 05:04	PDK	A
4-Bromofluorobenzene (S)	82.9		%	79 - 114	SW846 8260B			2/27/19 05:04	PDK	A
Dibromofluoromethane (S)	120	1	%	78 - 116	SW846 8260B			2/27/19 05:04	PDK	A
Toluene-d8 (S)	89.5		%	76 - 127	SW846 8260B			2/27/19 05:04	PDK	A



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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985008**
Sample ID: **112-0218-MW9**

Date Collected: 2/18/2019 14:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 18:55	TMP	A
Toluene	2.3		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 18:55	TMP	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 18:55	TMP	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	109		%	62 - 133	SW846 8260B			2/27/19 18:55	TMP	A
4-Bromofluorobenzene (S)	99.8		%	79 - 114	SW846 8260B			2/27/19 18:55	TMP	A
Dibromofluoromethane (S)	96.2		%	78 - 116	SW846 8260B			2/27/19 18:55	TMP	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			2/27/19 18:55	TMP	A



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985009**
Sample ID: **112-0218-MW10**

Date Collected: 2/18/2019 11:58 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 05:28	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 05:28	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:28	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	131		%	62 - 133	SW846 8260B			2/27/19 05:28	PDK	A
4-Bromofluorobenzene (S)	84.7		%	79 - 114	SW846 8260B			2/27/19 05:28	PDK	A
Dibromofluoromethane (S)	126	1	%	78 - 116	SW846 8260B			2/27/19 05:28	PDK	A
Toluene-d8 (S)	91.2		%	76 - 127	SW846 8260B			2/27/19 05:28	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985010**
Sample ID: **112-0218-MW15**

Date Collected: 2/19/2019 11:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	42.3		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Ethylbenzene	276		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Isopropylbenzene	77.2		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Methyl t-Butyl Ether	ND		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Naphthalene	15.6		ug/L	10.0	SW846 8260B			2/27/19 21:32	TMP	B
Toluene	60.8		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
Total Xylenes	202		ug/L	15.0	SW846 8260B			2/27/19 21:32	TMP	B
1,2,4-Trimethylbenzene	279		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	5.0	SW846 8260B			2/27/19 21:32	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	110		%	62 - 133	SW846 8260B			2/27/19 21:32	TMP	B
4-Bromofluorobenzene (S)	102		%	79 - 114	SW846 8260B			2/27/19 21:32	TMP	B
Dibromofluoromethane (S)	96.4		%	78 - 116	SW846 8260B			2/27/19 21:32	TMP	B
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			2/27/19 21:32	TMP	B



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

Lab ID: **3017985011**
Sample ID: **112-0218-FB1**

Date Collected: 2/18/2019 10:20 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND	2	ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 01:13	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 01:13	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:13	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	122		%	62 - 133	SW846 8260B			2/27/19 01:13	PDK	A
4-Bromofluorobenzene (S)	82.5		%	79 - 114	SW846 8260B			2/27/19 01:13	PDK	A
Dibromofluoromethane (S)	119	1	%	78 - 116	SW846 8260B			2/27/19 01:13	PDK	A
Toluene-d8 (S)	89.8		%	76 - 127	SW846 8260B			2/27/19 01:13	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017985 Pump N Pantry

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3017985001	1	112-0218-MW1	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 125 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017985004	2	112-0218-MW4	SW846 8260B	Benzene
VTC - The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3017985005	2	112-0218-MW5	SW846 8260B	Benzene
VTC - The GCMS volatiles analysis was performed at a dilution due to the level of target compounds.				
3017985007	1	112-0218-MW8	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 120 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017985007	2	112-0218-MW8	SW846 8260B	Benzene
The sample submitted for volatiles analysis contained headspace. The method requires that the samples be collected without headspace in order to prevent the loss of volatile organics. Results reported should be considered estimated.				
3017985009	1	112-0218-MW10	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 126 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017985011	1	112-0218-FB1	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 119 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017985011	2	112-0218-FB1	SW846 8260B	Benzene
The sample submitted for volatiles analysis contained headspace. The method requires that the samples be collected without headspace in order to prevent the loss of volatile organics. Results reported should be considered estimated.				

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**ANALYSIS - PREP METHOD CROSS REFERENCE TABLE**

Workorder: 3017985 Pump N Pantry

Lab ID	Sample ID	Analysis Method	Prep Method
3017985001	112-0218-MW1	SW846 8260B	
3017985002	112-0218-MW2	SW846 8260B	
3017985003	112-0218-MW3	SW846 8260B	
3017985004	112-0218-MW4	SW846 8260B	
3017985005	112-0218-MW5	SW846 8260B	
3017985006	112-0218-MW6	SW846 8260B	
3017985007	112-0218-MW8	SW846 8260B	
3017985008	112-0218-MW9	SW846 8260B	
3017985009	112-0218-MW10	SW846 8260B	
3017985010	112-0218-MW15	SW846 8260B	
3017985011	112-0218-FB1	SW846 8260B	

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/

REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: LaBella Associates, P.C.		Container Type	CG	ANALYSES/METHOD REQUESTED	
Address: 1000 Dunham Drive, Suite B		Container Size	40 ml		
Dunmore, PA. 18512		Preservative	HCL		
Contact: Martin Gligallon					
Phone#: (570) 487-1959 / (570) 342-3101					
Project Name#: 2171845/Pump-n-Pantry #001					
Bill To: Lynn Hanichak					
TAT ☒ Normal-Standard TAT is 10-12 business days.					
☐ Rush-Subject to ALS approval and surcharges.					
Date Required: _____ Approved By: _____					
Email? ☒ Y ☐ N <u>mgigallon@labellapc.com</u>					
Fax? ☐ Y ☐ N _____					
Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	Matrix	Enter Number of Containers Per Sample or Field Results Below.	
1 112-0218-MW1	19 Feb 19	1300	GW	2	
2 112-0218-MW2	19 Feb 19	1120	GW	2	
3 112-0218-MW3	19 Feb 19	1030	GW	2	
4 112-0218-MW4	19 Feb 19	1200	GW	2	
5 112-0218-MW5	19 Feb 19	945	GW	2	
6 112-0218-MW6	19 Feb 19	910	GW	2	
7 112-0218-MW7	NS	NS	GW	2	55 2/24/19
8 112-0218-MW8	18 Feb 19	1350	GW	2	
9 112-0218-MW9	18 Feb 19	1400	GW	2	
10 112-0218-MW10	18 Feb 19	1158	GW	2	
Project Comments: FEDEx # 8144 0499 7995					
Relinquished By / Company Name		Date	Time	Received By / Company Name	
1 <i>Martin Gligallon</i>		19 Feb 19	1700	2 <i>Susan Nolasco-LABELLA</i>	
3 <i>Susan Nolasco-LABELLA</i>		19 Feb 19	1400	4 <i>FEDEx # 8144 0499 7995</i>	
5 <i>COMMON COURIER / ALS COURIER</i>				6 <i>[Signature]</i>	
7				8	
9				10	
LOGGED BY (signature):		REVIEWED BY (signature):			
EDDS: Format Type:		PWSID #			
Reportable to PADEP?		Yes ☐ No ☒			
Sample Disposal		USACE ☐ Navy ☐ NY ☐ NJ ☐ PA ☒ NC ☐			
State Samples Collected In		Special Processing			
USACE ☐ Navy ☐ NY ☐ NJ ☐ PA ☒ NC ☐		ALS Field Services: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other: _____			
Custody Seals Present?		Custody Seals Present? ☐			
(if present) Seals Intact?		(if present) Seals Intact? ☐			
Received on Ice?		Received on Ice? ☐			
COC/Labels Complete/Accurate?		COC/Labels Complete/Accurate? ☐			
Cont. In Good Cond?		Cont. In Good Cond? ☐			
Correct Containers?		Correct Containers? ☐			
Correct Sample Volumes?		Correct Sample Volumes? ☐			
Correct Preservation?		Correct Preservation? ☐			
Headspace/Volatiles?		Headspace/Volatiles? ☐			
Courier/Tracking #:		Courier/Tracking #: _____			
Sample/COC Comments		Sample/COC Comments			



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS
ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #: 3017985
ALS Quote #: 2 of 2

Client Name: Labella Associates, P.C.		Container Type: CG	Receipt Information (completed by Receiving Lab)	
Address: 1000 Dunham Drive, Suite B		Container Size: 40 ml	Cooler Temp: _____	Therm ID: _____
Dunmore, PA 18512		Preservative: HCL	No. of Coolers: _____	Y N Initial
Contact: Martin Gilgallon		Custody Seals Present? _____		
Phone#: (570) 487-1959		(if present) Seals Intact? _____		
Project Name#: 2171845(Pump-n-Pantry #001)		Received on Ice? _____		
Bill To: Lynn Hanichak		COC Labels Complete/Accurate? _____		
TAT ☒ Normal-Standard TAT is 10-12 business days.		Cont. In Good Cond.? _____		
Date Required: _____		Correct Containers? _____		
Email? ☒ Y ☐ N mgilgallon@labellapc.com		Correct Sample Volumes? _____		
Fax? ☐ Y ☐ N		Correct Preservation? _____		
Sample Description/Location (as it will appear on the lab report)		Headspace/Volatiles? _____		
Sample Date		Courier Tracking #: _____		
Sample Time		Sample/COC Comments		
1 112-0218-MW15		Enter Number of Containers Per Sample or Field Results Below.		
2 112-0218-FB1		Unleaded Gasoline		
17 FEB 19 1100		G GW 2		
18 FEB 19 1020		G DI 2		
19 FEB 19 1700		G DI 2		
20 FEB 19 1400		G DI 2		
21 FEB 19 1400		G DI 2		
22 FEB 19 1400		G DI 2		
23 FEB 19 1400		G DI 2		
24 FEB 19 1400		G DI 2		
25 FEB 19 1400		G DI 2		
26 FEB 19 1400		G DI 2		
27 FEB 19 1400		G DI 2		
28 FEB 19 1400		G DI 2		
29 FEB 19 1400		G DI 2		
30 FEB 19 1400		G DI 2		
1 MAR 19 1400		G DI 2		
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29 MAY 19 1400		G DI 2		
30 MAY 19 1400		G DI 2		
31 MAY 19 1400		G DI 2		
1 JUN 19 1400		G DI 2		
2 JUN 19 1400		G DI 2		
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23 JUL 19 1400		G DI 2		
24 JUL 19 1400		G DI 2		
25 JUL 19 1400		G DI 2		
26 JUL 19 1400		G DI 2		
27 JUL 19 1400		G DI 2		
28 JUL 19 1400		G DI 2		
29 JUL 19 1400		G DI 2		
30 JUL 19 1400		G DI 2		
31 JUL 19 1400		G DI 2		
1 AUG 19 1400		G DI 2		
2 AUG 19 1400		G DI 2		
3 AUG 19 1400		G DI 2		
4 AUG 19 1400		G DI 2		
5 AUG 19 1400		G DI 2		
6 AUG 19 1400		G DI 2		
7 AUG 19 1400		G DI 2		
8 AUG 19 1400		G DI 2		
9 AUG 19 1400		G DI 2		
10 AUG 19 1400		G DI 2		
11 AUG 19 1400		G DI 2		
12 AUG 19 1400		G DI 2		
13 AUG 19 1400		G DI 2		
14 AUG 19 1400		G DI 2		
15 AUG 19 1400		G DI 2		
16 AUG 19 1400		G DI 2		
17 AUG 19 1400		G DI 2		
18 AUG 19 1400		G DI 2		
19 AUG 19 1400		G DI 2		
20 AUG 19 1400		G DI 2		
21 AUG 19 1400		G DI 2		
22 AUG 19 1400		G DI 2		
23 AUG 19 1400		G DI 2		
24 AUG 19 1400		G DI 2		
25 AUG 19 1400		G DI 2		
26 AUG 19 1400		G DI 2		
27 AUG 19 1400		G DI 2		
28 AUG 19 1400		G DI 2		
29 AUG 19 1400		G DI 2		
30 AUG 19 1400		G DI 2		
31 AUG 19 1400		G DI 2		
1 SEP 19 1400		G DI 2		
2 SEP 19 1400		G DI 2		
3 SEP 19 1400		G DI 2		
4 SEP 19 1400		G DI 2		
5 SEP 19 1400		G DI 2		
6 SEP 19 1400		G DI 2		
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16 SEP 19 1400		G DI 2		
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26 SEP 19 1400		G DI 2		
27 SEP 19 1400		G DI 2		
28 SEP 19 1400		G DI 2		
29 SEP 19 1400		G DI 2		
30 SEP 19 1400		G DI 2		
1 OCT 19 1400		G DI 2		
2 OCT 19 1400		G DI 2		
3 OCT 19 1400		G DI 2		
4 OCT 19 1400		G DI 2		
5 OCT 19 1400		G DI 2		
6 OCT 19 1400		G DI 2		
7 OCT 19 1400		G DI 2		
8 OCT 19 1400		G DI 2		
9 OCT 19 1400		G DI 2		
10 OCT 19 1400		G DI 2		
11 OCT 19 1400		G DI 2		
12 OCT 19 1400		G DI 2		
13 OCT 19 1400		G DI 2		
14 OCT 19 1400		G DI 2		
15 OCT 19 1400		G DI 2		
16 OCT 19 1400		G DI 2		
17 OCT 19 1400		G DI 2		
18 OCT 19 1400		G DI 2		
19 OCT 19 1400		G DI 2		
20 OCT 19 1400		G DI 2		
21 OCT 19 1400		G DI 2		
22 OCT 19 1400		G DI 2		
23 OCT 19 1400		G DI 2		
24 OCT 19 1400		G DI 2		
25 OCT 19 1400		G DI 2		
26 OCT 19 1400		G DI 2		
27 OCT 19 1400		G DI 2		
28 OCT 19 1400		G DI 2		
29 OCT 19 1400		G DI 2		
30 OCT 19 1400		G DI 2		
31 OCT 19 1400		G DI 2		
1 NOV 19 1400		G DI 2		
2 NOV 19 1400		G DI 2		
3 NOV 19 1400		G DI 2		
4 NOV 19 1400		G DI 2		
5 NOV 19 1400		G DI 2		
6 NOV 19 1400		G DI 2		
7 NOV 19 1400		G DI 2		
8 NOV 19 1400		G DI 2		
9 NOV 19 1400		G DI 2		
10 NOV 19 1400		G DI 2		
11 NOV 19 1400		G DI 2		
12 NOV 19 1400		G DI 2		
13 NOV 19 1400		G DI 2		
14 NOV 19 1400		G DI 2		
15 NOV 19 1400		G DI 2		
16 NOV 19 1400		G DI 2		
17 NOV 19 1400		G DI 2		
18 NOV 19 1400		G DI 2		
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20 NOV 19 1400		G DI 2		
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24 NOV 19 1400		G DI 2		
25 NOV 19 1400		G DI 2		
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27 NOV 19 1400		G DI 2		
28 NOV 19 1400		G DI 2		
29 NOV 19 1400		G DI 2		
30 NOV 19 1400		G DI 2		
1 DEC 19 1400		G DI 2		
2 DEC 19 1400		G DI 2		
3 DEC 19 1400		G DI 2		
4 DEC 19 1400		G DI 2		
5 DEC 19 1400		G DI 2		
6 DEC 19 1400		G DI 2		
7 DEC 19 1400		G DI 2		
8 DEC 19 1400		G DI 2		
9 DEC 19 1400		G DI 2		
10 DEC 19 1400		G DI 2		
11 DEC 19 1400		G DI 2		
12 DEC 19 1400		G DI 2		
13 DEC 19 1400		G DI 2		
14 DEC 19 1400		G DI 2		
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25 DEC 19 1400		G DI 2		
26 DEC 19 1400		G DI 2		
27 DEC 19 1400		G DI 2		
28 DEC 19 1400		G DI 2		
29 DEC 19 1400		G DI 2		
30 DEC 19 1400		G DI 2		
31 DEC 19 1400		G DI 2		
1 JAN 20 1400		G DI 2		
2 JAN 20 1400		G DI 2		
3 JAN 20 1400		G DI 2		
4 JAN 20 1400		G DI 2		
5 JAN 20 1400		G DI 2		
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7 JAN 20 1400		G DI 2		
8 JAN 20 1400		G DI 2		
9 JAN 20 1400		G DI 2		
10 JAN 20 1400		G DI 2		



301 Fulling Mill Road
Middletown, PA 17057
P: (717) 944-5541
F: (717) 944-1430

Condition of Sample Receipt Form

Client:	Work Order #:	Initials:	Date:
	3017915		
1. Were airbills / tracking numbers present and recorded?..... NONE ☒ YES NO			
Tracking number: 8144 0499 795			
2. Are Custody Seals on shipping containers intact?..... NONE YES NO			
3. Are Custody Seals on sample containers intact?..... NONE YES NO			
4. Is there a COC (Chain-of-Custody) present?..... YES NO			
5. Are the COC and bottle labels complete, legible and in agreement?..... YES NO			
5a. Does the COC contain sample locations?..... YES NO			
5b. Does the COC contain date and time of sample collection for all samples?..... YES NO			
5c. Does the COC contain sample collectors name?..... YES NO			
5d. Does the COC note the type(s) of preservation for all bottles?..... YES NO			
5e. Does the COC note the number of bottles submitted for each sample?..... YES NO			
5f. Does the COC note the type of sample, composite or grab?..... YES NO			
5g. Does the COC note the matrix of the sample(s)?..... YES NO			
6. Are all aqueous samples requiring preservation preserved correctly?..... N/A YES NO			
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... YES NO			
8. Are all samples within holding times for the requested analyses?..... YES NO			
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... YES NO			
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... N/A YES NO			
11. Were the samples received on ice?..... YES NO			
12. Were sample temperatures measured at 0.0-6.0°C..... YES NO			
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... YES NO			
13a. Are the samples required for SDWA compliance reporting?..... N/A YES NO			
13b. Did the client provide a SDWA PWS ID#?..... N/A YES NO			
13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... N/A YES NO			
13d. Did the client provide the SDWA sample location ID/Description?..... N/A YES NO			
13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... N/A YES NO			

Cooler #: 1
Temperature (°C): 5
Thermometer ID: 352

COMMENTS (Required for all NO responses above and any sample non-conformance):

Rev. 1/10/2019

February 27, 2019

Mr. Marty Gilgallon
LaBella-Dunmore
1000 Dunham Drive
Suite B
Scranton, PA 18512

Certificate of Analysis

Project Name:	Pump N Pantry	Workorder:	3017982
Purchase Order:		Workorder ID:	Pump N Pantry

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 22, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matthew Morell, Mr. Kevin Cucura

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Amy K Borden
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3017982 Pump N Pantry

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3017982001	112-0218-OW1	Ground Water	2/19/2019 14:25	2/22/2019 09:38	Collected by Client
3017982002	112-0218-OW2	Ground Water	2/19/2019 14:15	2/22/2019 09:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3017982 Pump N Pantry

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3017982 Pump N Pantry

Lab ID: **3017982001**
Sample ID: **112-0218-OW1**

Date Collected: 2/19/2019 14:25 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 02:23	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 02:23	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:23	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	127		%	62 - 133	SW846 8260B			2/27/19 02:23	PDK	A
4-Bromofluorobenzene (S)	84.4		%	79 - 114	SW846 8260B			2/27/19 02:23	PDK	A
Dibromofluoromethane (S)	124	1	%	78 - 116	SW846 8260B			2/27/19 02:23	PDK	A
Toluene-d8 (S)	90.9		%	76 - 127	SW846 8260B			2/27/19 02:23	PDK	A



Ms. Amy K Borden
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3017982 Pump N Pantry

Lab ID: **3017982002**
Sample ID: **112-0218-OW2**

Date Collected: 2/19/2019 14:15 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 02:46	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 02:46	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:46	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	126		%	62 - 133	SW846 8260B			2/27/19 02:46	PDK	A
4-Bromofluorobenzene (S)	83.4		%	79 - 114	SW846 8260B			2/27/19 02:46	PDK	A
Dibromofluoromethane (S)	123	1	%	78 - 116	SW846 8260B			2/27/19 02:46	PDK	A
Toluene-d8 (S)	90.2		%	76 - 127	SW846 8260B			2/27/19 02:46	PDK	A



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**ANALYTICAL RESULTS**

Workorder: 3017982 Pump N Pantry

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3017982001	1	112-0218-OW1	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 124 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017982002	1	112-0218-OW2	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 123 and the control limits were 78 to 116. This result was reported at a dilution of 1.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3017982 Pump N Pantry

Lab ID	Sample ID	Analysis Method	Prep Method
3017982001	112-0218-OW1	SW846 8260B	
3017982002	112-0218-OW2	SW846 8260B	

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: LaBella Associates, P.C.		Container Type	CG	Cooler Temp: _____ Therm ID: _____		No. of Coolers: _____ Y _____ N _____ Initial	
Address: 1000 Dunham Drive, Suite B Dunmore, PA. 18512		Container Size	40 ml	Custody Seals Present?			
Contact: Martin Gligallon		Preservative	HCL	(if present) Seals Intact?			
Phone#: (570) 487-1959		COCILabels Complete/Accurate?					
Project Name#: 2171845/Pump-n-Pantry #001		Cont. In Good Cond.?					
Bill To: Lynn Hanichak		Correct Containers?					
TAT ☒ Normal-Standard TAT is 10-12 business days.		Correct Sample Volumes?					
Date Required: _____ Approved By: _____		Correct Preservation?					
Email? ☒ Y ☐ N <u>mgilgallon@labellapc.com</u>		HeadSpace/Volatiles?					
Fax? ☐ Y ☐ N _____		Courier/Tracking #:					
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.			
1 112-0218-OW1		19 Feb 19	1425	G	GW	2	
2 112-0218-OW2		19 Feb 19	1415	G	GW	2	
3							
4							
5							
6							
7							
8							
9							
10							
Project Comments: <i>Fedex # 8144 0499 7995</i>		LOGGED BY (signature):		Date		Time	
		REVIEWED BY (signature):		Date		Time	
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time
1 <i>M. Hanichak</i>		19 Feb 19	1700	Susan Novak-LABELLA		19 Feb 19	1700
3 <i>Susan Novak-LABELLA</i>		19 Feb 19	1400	FEDEX # 8144 0499 7995		19 Feb 19	1400
5 <i>COMMON COURIER / ALS COURIER</i>							
7							
9							
ALS Field Services: _____ Pickup _____ Labor _____ Composite Sampling _____ Rental Equipment _____ Other: _____		Data Deliverables		Special Processing		State Samples Collected In	
		☒ Standard ☐ CLP-like ☐ USACE		USACE ☐ Navy ☐		☐ NY ☐ NJ ☒ PA ☐ NC	
		Reportable to PADEP? Yes ☐ No ☐		Sample Disposal Lab ☐ Special ☐			
		PWSID # _____		EDDS: Format Type: _____			



301 Fulling Mill Road
Middletown, PA 17057

P: (717) 944-5541

F: (717) 944-1430

Condition of Sample Receipt Form

Client: _____ Work Order #: 3017982 Initials: _____ Date: _____

1. Were airbills / tracking numbers present and recorded?..... NONE ☒ YES NO
Tracking number: 8144 0499 7995
2. Are Custody Seals on shipping containers intact?..... ☒ NONE YES NO
3. Are Custody Seals on sample containers intact?..... ☒ NONE YES NO
4. Is there a COC (Chain-of-Custody) present?..... ☒ YES NO
5. Are the COC and bottle labels complete, legible and in agreement?..... ☒ YES NO
- 5a. Does the COC contain sample locations?..... ☒ YES NO
- 5b. Does the COC contain date and time of sample collection for all samples?..... ☒ YES NO
- 5c. Does the COC contain sample collectors name?..... ☒ YES NO
- 5d. Does the COC note the type(s) of preservation for all bottles?..... ☒ YES NO
- 5e. Does the COC note the number of bottles submitted for each sample?..... ☒ YES NO
- 5f. Does the COC note the type of sample, composite or grab?..... ☒ YES NO
- 5g. Does the COC note the matrix of the sample(s)?..... ☒ YES NO
6. Are all aqueous samples requiring preservation preserved correctly?..... N/A ☒ YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... ☒ YES NO
8. Are all samples within holding times for the requested analyses?..... ☒ YES NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... ☒ YES NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... ☒ N/A YES NO
11. Were the samples received on ice?..... ☒ YES NO
12. Were sample temperatures measured at 0.0-6.0°C..... ☒ YES NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... YES ☒ NO
- 13a. Are the samples required for SDWA compliance reporting?..... ☒ N/A YES NO
- 13b. Did the client provide a SDWA PWS ID#?..... ☒ N/A YES NO
- 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... ☒ N/A YES NO
- 13d. Did the client provide the SDWA sample location ID/Description?..... ☒ N/A YES NO
- 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... ☒ N/A YES NO

Cooler #: 1 _____

Temperature (°C): 5 _____

Thermometer ID: 352 _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

Rev. 1/10/2019

February 27, 2019

Mr. Marty Gilgallon
LaBella-Dunmore
1000 Dunham Drive
Suite B
Scranton, PA 18512

Certificate of Analysis

Project Name: 2171846/Pump-n-Pantry #001	Workorder: 3017971
Purchase Order:	Workorder ID: 2171846/Pump-n-Pantry #001

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 22, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matthew Morell, Mr. Kevin Cucura

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Amy K Borden
Project Coordinator

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SAMPLE SUMMARY

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3017971001	112-0218-MW12	Ground Water	2/18/2019 11:10	2/22/2019 09:38	Collected by Client
3017971002	112-0218-MW13	Ground Water	2/18/2019 10:16	2/22/2019 09:38	Collected by Client
3017971003	112-0218-MW14	Ground Water	2/18/2019 09:46	2/22/2019 09:38	Collected by Client
3017971004	112-0218-FB2	Ground Water	2/19/2019 10:20	2/22/2019 09:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3017971 2171846/Pump-n-Pantry #001

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID: **3017971001**
Sample ID: **112-0218-MW12**

Date Collected: 2/18/2019 11:10 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 04:53	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 04:53	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 04:53	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62 - 133	SW846 8260B			2/27/19 04:53	PDK	A
4-Bromofluorobenzene (S)	102		%	79 - 114	SW846 8260B			2/27/19 04:53	PDK	A
Dibromofluoromethane (S)	95.3		%	78 - 116	SW846 8260B			2/27/19 04:53	PDK	A
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			2/27/19 04:53	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID: **3017971002**
Sample ID: **112-0218-MW13**

Date Collected: 2/18/2019 10:16 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 05:16	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 05:16	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 05:16	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	108		%	62 - 133	SW846 8260B			2/27/19 05:16	PDK	A
4-Bromofluorobenzene (S)	104		%	79 - 114	SW846 8260B			2/27/19 05:16	PDK	A
Dibromofluoromethane (S)	95.7		%	78 - 116	SW846 8260B			2/27/19 05:16	PDK	A
Toluene-d8 (S)	104		%	76 - 127	SW846 8260B			2/27/19 05:16	PDK	A



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ANALYTICAL RESULTS

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID: **3017971003**
Sample ID: **112-0218-MW14**

Date Collected: 2/18/2019 09:46 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 02:00	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 02:00	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 02:00	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	126		%	62 - 133	SW846 8260B			2/27/19 02:00	PDK	A
4-Bromofluorobenzene (S)	83.8		%	79 - 114	SW846 8260B			2/27/19 02:00	PDK	A
Dibromofluoromethane (S)	121	1	%	78 - 116	SW846 8260B			2/27/19 02:00	PDK	A
Toluene-d8 (S)	90.9		%	76 - 127	SW846 8260B			2/27/19 02:00	PDK	A

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ANALYTICAL RESULTS

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID: **3017971004**
Sample ID: **112-0218-FB2**

Date Collected: 2/19/2019 10:20 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 01:37	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 01:37	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 01:37	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	123		%	62 - 133	SW846 8260B			2/27/19 01:37	PDK	A
4-Bromofluorobenzene (S)	84.7		%	79 - 114	SW846 8260B			2/27/19 01:37	PDK	A
Dibromofluoromethane (S)	120	1	%	78 - 116	SW846 8260B			2/27/19 01:37	PDK	A
Toluene-d8 (S)	90.8		%	76 - 127	SW846 8260B			2/27/19 01:37	PDK	A

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Project Coordinator

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**ANALYTICAL RESULTS**

Workorder: 3017971 2171846/Pump-n-Pantry #001

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3017971003	1	112-0218-MW14	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 121 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017971004	1	112-0218-FB2	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 120 and the control limits were 78 to 116. This result was reported at a dilution of 1.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3017971 2171846/Pump-n-Pantry #001

Lab ID	Sample ID	Analysis Method	Prep Method
3017971001	112-0218-MW12	SW846 8260B	
3017971002	112-0218-MW13	SW846 8260B	
3017971003	112-0218-MW14	SW846 8260B	
3017971004	112-0218-FB2	SW846 8260B	

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/

REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: Labella Associates, P.C.		Container Type	CG	Cooler Temp: 5 Therm ID: 1	
Address: 1000 Dunham Drive, Suite B		Container Size	40 ml	No. of Coolers: Y N Initial	
Dunmore, PA 18512		Preservative	HCL	Custody Seals Present?	
Contact: Martin Gligallon		COCILabels Complete/Accurate?			
Phone#: (570) 487-1959		Correct Containers?			
Project Name#: 2171846(Pump-n-Pantry #001)		Correct Sample Volumes?			
Bill To: Lynn Hanichak		Correct Preservation?			
TAT ☒ Normal-Standard TAT is 10-12 business days.		Headspace/Volatiles?			
Date Required: Rush-Subject to ALS approval and surcharges.		Courier/Tracking #:			
Email? ☒ Y ☐ N mlgigallon@labellapc.com		Sample/COC Comments			
Fax? ☐ Y ☐ N No.:		Enter Number of Containers Per Sample or Field Results Below.			
Sample Description/Location (as it will appear on the lab report)	Sample Date	Time	Matrix	ALS Field Services: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other:	
1 112-0218-MW11	18 Feb 19	1305	GW	2	7 Broken 53 2/22/18
2 112-0218-MW12	18 Feb 19	1110	GW	2	
3 112-0218-MW13	18 Feb 19	1016	GW	2	
4 112-0218-MW14	18 Feb 19	0946	GW	2	
5 112-0218-FB2	19 Feb 19	1020	DI	2	
6					
7					
8					
9					
10					
Project Comments: FedEx # 8144 0499 7995		LOGGED BY (signature):		State Samples Collected In	
Relinquished By / Company Name		Date	Time	Special Processing	
17 M. Hanichak / Environmental	19 Feb 19	1700		USACE ☐ Navy ☐ NY ☐ NJ ☐ PA ☒ NC ☐	
3 Susan Noyce / LABELLA	21 Feb 19	1400		USACE ☐ Navy ☐ Lab ☐ Special ☐	
5 Susan Noyce / LABELLA	21 Feb 19	1400		USACE ☐ Navy ☐ Lab ☐ Special ☐	
7 Susan Noyce / LABELLA	21 Feb 19	1400		USACE ☐ Navy ☐ Lab ☐ Special ☐	
9 Susan Noyce / LABELLA	21 Feb 19	1400		USACE ☐ Navy ☐ Lab ☐ Special ☐	

ALS Environmental Shipping Address: 34 Dogwood Lane, Middletown, PA 17057

Rev 10/11

ALS



301 Fulling Mill Road
Middletown, PA 17057

P: (717) 944-5541

F: (717) 944-1430

Condition of Sample Receipt Form

Client: Labella Ass. Work Order #: 3017971 Initials: SS Date: 2/21/19

- | | | | |
|--|---------------------------------------|--------------------------------------|-------------------------------------|
| 1. Were airbills / tracking numbers present and recorded?..... | NONE | ☒ YES | NO |
| Tracking number: <u>8144 0499 7995</u> | | | |
| 2. Are Custody Seals on shipping containers intact?..... | NONE | ☒ YES | NO |
| 3. Are Custody Seals on sample containers intact?..... | ☒ NONE | YES | NO |
| 4. Is there a COC (Chain-of-Custody) present?..... | | ☒ YES | NO |
| 5. Are the COC and bottle labels complete, legible and in agreement?..... | | ☒ YES | NO |
| 5a. Does the COC contain sample locations?..... | | ☒ YES | NO |
| 5b. Does the COC contain date and time of sample collection for all samples?..... | | ☒ YES | NO |
| 5c. Does the COC contain sample collectors name?..... | | ☒ YES | NO |
| 5d. Does the COC note the type(s) of preservation for all bottles?..... | | ☒ YES | NO |
| 5e. Does the COC note the number of bottles submitted for each sample?..... | | ☒ YES | NO |
| 5f. Does the COC note the type of sample, composite or grab?..... | | ☒ YES | NO |
| 5g. Does the COC note the matrix of the sample(s)?..... | | ☒ YES | NO |
| 6. Are all aqueous samples requiring preservation preserved correctly?..... | N/A | ☒ YES | NO |
| 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... | | ☒ YES | NO |
| 8. Are all samples within holding times for the requested analyses?..... | | ☒ YES | NO |
| 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... | | YES | ☒ NO |
| 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631 E (LL Hg)?..... | ☒ N/A | YES | NO |
| 11. Were the samples received on ice?..... | | ☒ YES | NO |
| 12. Were sample temperatures measured at 0.0-6.0°C..... | | ☒ YES | NO |
| 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... | | YES | ☒ NO |
| 13a. Are the samples required for SDWA compliance reporting?..... | ☒ N/A | YES | NO |
| 13b. Did the client provide a SDWA PWS ID#?..... | ☒ N/A | YES | NO |
| 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... | ☒ N/A | YES | NO |
| 13d. Did the client provide the SDWA sample location ID/Description?..... | ☒ N/A | YES | NO |
| 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... | ☒ N/A | YES | NO |

Cooler #: 1

Temperature (°C): 5

Thermometer ID: 352

COMMENTS (Required for all NO responses above and any sample non-conformance):

MW 11 received broken

Rev. 1/10/2019

February 28, 2019

Mr. Marty Gilgallon
LaBella-Dunmore
1000 Dunham Drive
Suite B
Scranton, PA 18512

Certificate of Analysis

Project Name: **Pump N Pantry**Workorder: **3017984**

Purchase Order:

Workorder ID: **Pump N Pantry**

Dear Mr. Gilgallon:

Enclosed are the analytical results for samples received by the laboratory on Friday, February 22, 2019.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Amy K Borden (Project Coordinator) at (717) 944-5541.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Matthew Morell, Mr. Kevin Cucura

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SAMPLE SUMMARY

Workorder: 3017984 Pump N Pantry

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3017984001	112-0218-OW3	Ground Water	2/19/2019 13:15	2/22/2019 09:38	Collected by Client
3017984002	112-0218-OW4	Ground Water	2/19/2019 14:00	2/22/2019 09:38	Collected by Client

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SAMPLE SUMMARY

Workorder: 3017984 Pump N Pantry

Notes

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- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 3017984 Pump N Pantry

Lab ID: **3017984001**
Sample ID: **112-0218-OW3**

Date Collected: 2/19/2019 13:15 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND	4	ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Methyl t-Butyl Ether	ND	2,3	ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 03:09	PDK	A
Toluene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 03:09	PDK	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 03:09	PDK	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	129		%	62 - 133	SW846 8260B			2/27/19 03:09	PDK	A
4-Bromofluorobenzene (S)	84.6		%	79 - 114	SW846 8260B			2/27/19 03:09	PDK	A
Dibromofluoromethane (S)	123	1	%	78 - 116	SW846 8260B			2/27/19 03:09	PDK	A
Toluene-d8 (S)	90.5		%	76 - 127	SW846 8260B			2/27/19 03:09	PDK	A



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Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3017984 Pump N Pantry

Lab ID: **3017984002**
Sample ID: **112-0218-OW4**

Date Collected: 2/19/2019 14:00 Matrix: Ground Water
Date Received: 2/22/2019 09:38

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Naphthalene	ND		ug/L	2.0	SW846 8260B			2/27/19 19:17	TMP	B
Toluene	1.9		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
Total Xylenes	ND		ug/L	3.0	SW846 8260B			2/27/19 19:17	TMP	B
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			2/27/19 19:17	TMP	B
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	111		%	62 - 133	SW846 8260B			2/27/19 19:17	TMP	B
4-Bromofluorobenzene (S)	101		%	79 - 114	SW846 8260B			2/27/19 19:17	TMP	B
Dibromofluoromethane (S)	95.8		%	78 - 116	SW846 8260B			2/27/19 19:17	TMP	B
Toluene-d8 (S)	103		%	76 - 127	SW846 8260B			2/27/19 19:17	TMP	B

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**ANALYTICAL RESULTS**

Workorder: 3017984 Pump N Pantry

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3017984001	1	112-0218-OW3	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 123 and the control limits were 78 to 116. This result was reported at a dilution of 1.				
3017984001	2	112-0218-OW3	SW846 8260B	Methyl t-Butyl Ether
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 116 and the control limits were 69 to 115.				
3017984001	3	112-0218-OW3	SW846 8260B	Methyl t-Butyl Ether
The QC sample type MSD for method SW846 8260B was outside the control limits for the analyte Methyl t-Butyl Ether. The % Recovery was reported as 116 and the control limits were 69 to 115.				
3017984001	4	112-0218-OW3	SW846 8260B	Benzene
The QC sample type MS for method SW846 8260B was outside the control limits for the analyte Benzene. The % Recovery was reported as 127 and the control limits were 80 to 124.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3017984 Pump N Pantry

Lab ID	Sample ID	Analysis Method	Prep Method
3017984001	112-0218-OW3	SW846 8260B	
3017984002	112-0218-OW4	SW846 8260B	

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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/

REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.

Client Name: LaBella Associates, P.C.		Container Type	CG	Cooler Temp: _____ Therm ID: _____		No. of Coolers: _____ Y _____ N _____ Initial _____		Custody Seals Present? _____ (if present) Seals Intact? _____ Received on Ice? _____ COC Labels Complete/Accurate? _____ Cont. in Good Cond.? _____ Correct Containers? _____ Correct Sample Volumes? _____ Correct Preservation? _____ Headspace/Volatiles? _____	
Address: 1000 Dunham Drive, Suite B Dunmore, PA 18512		Container Size	40 ml	Cooler Temp: _____ Therm ID: _____		No. of Coolers: _____ Y _____ N _____ Initial _____		Custody Seals Present? _____ (if present) Seals Intact? _____ Received on Ice? _____ COC Labels Complete/Accurate? _____ Cont. in Good Cond.? _____ Correct Containers? _____ Correct Sample Volumes? _____ Correct Preservation? _____ Headspace/Volatiles? _____	
Contact: Martin Gilgallon		Preservative	HCL	Cooler Temp: _____ Therm ID: _____		No. of Coolers: _____ Y _____ N _____ Initial _____		Custody Seals Present? _____ (if present) Seals Intact? _____ Received on Ice? _____ COC Labels Complete/Accurate? _____ Cont. in Good Cond.? _____ Correct Containers? _____ Correct Sample Volumes? _____ Correct Preservation? _____ Headspace/Volatiles? _____	
Phone#: (570) 487-1959		ANALYSES/METHOD REQUESTED							
Project Name#: 2171846/Pump-n-Pantry #001									
Bill To: Lynn Hanichak									
TAT ☒ Normal-Standard TAT is 10-12 business days. ☐ Rush-Subject to ALS approval and surcharges.									
Date Required: _____ Approved By: _____									
Email? ☒ Y ☐ N Email: mgilgallon@labellapc.com									
Fax? ☐ Y No: _____									
Sample Description/Location (as it will appear on the lab report)		Sample Date	Time	Enter Number of Containers Per Sample or Field Results Below.		Sample/COC Comments			
1 112-0218-OW3		19/08/19	1315	G	GW 2				
2 112-0218-OW4		19/08/19	1400	G	GW 2				
3									
4									
5									
6									
7									
8									
9									
10									
Project Comments: Leaky # 8144 0499 7995		LOGGED BY (signature):		REVIEWED BY (signature):					
Relinquished By / Company Name		Date	Time	Received By / Company Name		Date	Time	Data Deliverables	
1 Martha [Signature] Labella		19/08/19	1700	Susan Navar - LABELLA		19/08/19	1700	☒ Standard ☐ CLP-like ☐ USACE	
3 Susan Navar - LABELLA		19/08/19	1400	FEDERAL 8144 0499 7995		19/08/19	1400	☐ USACE	
5 COMMON COURIER / ALS COURIER								Reportable to PADEP? Yes ☐ No ☐ PWSID # _____	
7								Sample Disposal Lab ☐ Special ☐	
9								State Samples Collected In NY ☐ NJ ☐ PA ☒ NC ☐	
								EDDS: Format Type: _____	
								ALS Field Services: ☐ Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other: _____	

* G=Grab; C=Composite

**Matrix - Al=Air; DW=Drinking Water; GW=Groundwater; Ol=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater

ALS ENVIRONMENTAL SHIPPING ADDRESS: 34 DOGWOOD LANE, MIDDLETOWN, PA 17057

Rev 10/11

ALS



301 Fulling Mill Road
Middletown, PA 17057
P: (717) 944-5541
F: (717) 944-1430

Condition of Sample Receipt Form

Client: _____ Work Order #: 3017984 Initials: _____ Date: _____

- | | | | |
|--|---------------------------------------|--------------------------------------|-------------------------------------|
| 1. Were airbills / tracking numbers present and recorded?..... | NONE | ☒ YES | NO |
| Tracking number: <u>8144 0499 7995</u> | | | |
| 2. Are Custody Seals on shipping containers intact?..... | ☒ NONE | YES | NO |
| 3. Are Custody Seals on sample containers intact?..... | ☒ NONE | YES | NO |
| 4. Is there a COC (Chain-of-Custody) present?..... | | ☒ YES | NO |
| 5. Are the COC and bottle labels complete, legible and in agreement?..... | | ☒ YES | NO |
| 5a. Does the COC contain sample locations?..... | | ☒ YES | NO |
| 5b. Does the COC contain date and time of sample collection for all samples?..... | | ☒ YES | NO |
| 5c. Does the COC contain sample collectors name?..... | | ☒ YES | NO |
| 5d. Does the COC note the type(s) of preservation for all bottles?..... | | ☒ YES | NO |
| 5e. Does the COC note the number of bottles submitted for each sample?..... | | ☒ YES | NO |
| 5f. Does the COC note the type of sample, composite or grab?..... | | ☒ YES | NO |
| 5g. Does the COC note the matrix of the sample(s)?..... | | ☒ YES | NO |
| 6. Are all aqueous samples requiring preservation preserved correctly? | N/A | ☒ YES | NO |
| 7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... | | ☒ YES | NO |
| 8. Are all samples within holding times for the requested analyses?..... | | ☒ YES | NO |
| 9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... | | ☒ YES | NO |
| 10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... | ☒ N/A | YES | NO |
| 11. Were the samples received on ice?..... | | ☒ YES | NO |
| 12. Were sample temperatures measured at 0.0-6.0°C..... | | ☒ YES | NO |
| 13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... | | YES | ☒ NO |
| 13a. Are the samples required for SDWA compliance reporting?..... | ☒ N/A | YES | NO |
| 13b. Did the client provide a SDWA PWS ID#?..... | ☒ N/A | YES | NO |
| 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... | ☒ N/A | YES | NO |
| 13d. Did the client provide the SDWA sample location ID/Description?..... | ☒ N/A | YES | NO |
| 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... | ☒ N/A | YES | NO |

Cooler #: 1
Temperature (°C): 5
Thermometer ID: 352

COMMENTS (Required for all NO responses above and any sample non-conformance):

Rev. 1/10/2019

ATTACHMENT H

Groundwater Analytical Data & Intrinsic Data Summary Tables

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-1	10/19/2016	1654.16	15.22	1638.94	0.00	Characterization	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	1654.16	4.51	1649.65	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/22/2017	1654.16	3.24	1650.92	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/1/2017	1654.16	4.52	1649.64	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1654.16	2.29	1651.87	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1654.16	3.74	1650.42	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2017	1654.16	5.12	1649.04	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1654.16	3.48	1650.68	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1654.16	4.52	1649.64	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1654.16	3.27	1650.89	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-2	11/19/2018	1654.16	2.47	1651.69	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1654.16	2.74	1651.42	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-3	10/19/2016	1653.72	5.40	1648.32	0.00	Characterization	273	140	9.5	3.5	40.5	9.4	140	171	<1.0
	11/30/2016	1653.72	5.03	1648.69	0.00	Characterization	835	494	14.4	7.4	39.8	10.8	310	227	<5.0
	2/22/2017	1653.72	4.66	1649.06	0.00	Characterization	349	412	17.0	<5.0	50.5	19.5	275	250	<5.0
	5/2/2017	1653.72	5.07	1648.65	0.00	Characterization	612	659	27.2	<5.0	43.2	21.0	439	429	<5.0
	7/25/2017	1653.72	4.77	1648.95	0.00	Characterization	68.8	48.4	2.3	34.4	3.4	5.7	7.4	12.9	<1.0
	11/3/2017	1653.72	5.25	1648.47	0.00	Characterization	516	422	18.5	23.1	55.0	125	286	195	<1.0
	12/5/2017	1653.72	5.28	1648.44	0.00	Characterization	756	543	25.7	8.3	52.6	389	324	324	<1.0
	3/21/2018	1653.72	4.74	1648.98	0.00	Characterization	246	265	10.8	<5.0	21.1	24.2	151	161	<5.0
	6/8/2018	1653.72	5.22	1648.50	0.00	Characterization	643	625	50.2	8.8	77.8	89.8	565	336	<5.0
	9/11/2018	1653.72	4.51	1649.21	0.00	Characterization	99.8	119	7.7	9.4	<10.0	10.0	25.8	29.6	<5.0
MW-3	11/20/2018	1653.72	4.58	1649.14	0.00	Characterization	61.8	158	11.8	<5.0	<10.0	9.0	<15.0	57.6	<5.0
	2/19/2019	1653.72	4.58	1649.14	0.00	Characterization	30.2	91.6	10.2	<5.0	11.5	8.5	35.3	90.0	<5.0
MW-3	10/19/2016	1652.92	5.20	1647.72	0.00	Characterization	180	295	30.6	7.7	29.1	4.1	3.6	7.9	<1.0
	11/30/2016	1652.92	4.57	1648.35	0.00	Characterization	110	296	18.4	10.5	20.3	<5.0	<15.0	7.9	<5.0
	2/22/2017	1652.92	3.45	1649.47	0.00	Characterization	96.8	287	16.4	6.8	27.9	10.5	57.7	26.7	<5.0
	5/2/2017	1652.92	4.54	1648.38	0.00	Characterization	122	374	23.0	<5.0	21.8	9.5	69.1	57.6	<5.0
	7/25/2017	1652.92	4.21	1648.71	0.00	Characterization	35.9	105	7.2	<1.0	2.3	<1.0	<3.0	<1.0	<1.0
	11/3/2017	1652.92	4.52	1648.40	0.00	Characterization	44.3	57.6	14.0	<1.0	<2.0	1.3	<3.0	<1.0	<1.0
	12/5/2017	1652.92	4.79	1648.13	0.00	Characterization	45.2	73.6	13.3	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1652.92	4.45	1648.47	0.00	Characterization	38.1	117	8.5	12.5	<2.0	3.6	7.9	<1.0	<1.0
	6/8/2018	1652.92	4.64	1648.28	0.00	Characterization	48.4	83.1	14.0	<1.0	5.4	3.0	<3.0	2.3	<1.0
	9/11/2018	1652.92	4.18	1648.74	0.00	Characterization	17.5	15.6	5.4	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-3	11/20/2018	1652.92	4.32	1648.60	0.00	Characterization	11.8	14.0	2.9	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1652.92	4.39	1648.53	0.00	Characterization	38.0	76.7	11.2	<1.0	<2.0	2.5	<3.0	<1.0	<1.0

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

Notes:
1.) Screened Interval and Total Depth measurements from grade
2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

NS
NA
E

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-4	10/19/2016	1651.31	4.20	1647.11	0.00	Characterization	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	1651.31	3.40	1647.91	0.00	Characterization	214	176	25.1	4.9	14.3	17.5	50.6	25.8	<1.0
	2/22/2017	1651.31	3.40	1647.91	0.00	Characterization	282	179	20.4	<5.0	10.6	23.2	56.0	20.6	<5.0
	5/2/2017	1651.31	3.47	1647.84	0.00	Characterization	268	176	18.6	5.8	17.7	17.8	55.0	14.4	<5.0
	7/25/2017	1651.31	3.11	1648.20	0.00	Characterization	320	251	32.6	<5.0	16.6	21.0	55.0	27.1	<5.0
	11/3/2017	1651.31	3.51	1647.80	0.00	Characterization	267	176	20.8	<5.0	14.2	25.0	84.5	22.3	<5.0
	12/5/2017	1651.31	3.80	1647.51	0.00	Characterization	534	197	25.4	<5.0	26.0	42.6	108.0	17.5	<5.0
	3/21/2018	1651.31	3.32	1647.99	0.00	Characterization	324	180	23.8	<5.0	22.8	26.8	74.7	25.5	<5.0
	6/8/2018	1651.31	3.67	1647.64	0.00	Characterization	317	280	25.2	<5.0	13.7	36.8	65.0	28.3	<5.0
	9/11/2018	1651.31	3.08	1648.23	0.00	Characterization	163	132	24.6	<5.0	18.9	14.6	37.4	16.2	<5.0
MW-5	11/20/2018	1651.31	3.21	1648.10	0.00	Characterization	225	128	17.4	<5.0	28.1	17.0	60.3	9.2	5.4
	2/19/2019	1651.31	3.36	1647.95	0.00	Characterization	343	245	23.0	<5.0	35.2	35.0	157.0	34.3	15.4
						Characterization	465	649	54.3	<5.0	89.5	76.8	427	298	57.4
MW-6	10/19/2016	1652.33	4.64	1647.69	0.00	Characterization	173	104	9.6	26.4	70.3	7.7	57.2	132	20.8
	11/30/2016	1652.33	3.38	1648.95	0.00	Characterization	219	288	28.7	24.1	135	9.4	56.6	161	<1.0
	2/22/2017	1652.33	3.30	1649.03	0.00	Characterization	116	196	21.9	12.4	53.0	5.4	53.2	126	<1.0
	5/2/2017	1652.33	3.31	1649.02	0.00	Characterization	133	200	20.0	<5.0	23.0	<5.0	33.9	64.9	<5.0
	7/25/2017	1652.33	3.06	1649.27	0.00	Characterization	144	168	25.8	7.9	27.0	5.1	16.3	34.4	<1.0
	11/3/2017	1652.33	3.36	1648.97	0.00	Characterization	196	223	28.7	10.6	29.1	11.4	33.2	42.5	<1.0
	12/5/2017	1652.33	3.82	1648.51	0.00	Characterization	172	201	26.5	10.6	30.5	9.3	21.6	63.5	<5.0
	3/21/2018	1652.33	3.35	1648.98	0.00	Characterization	102	183	22.4	10.4	40.5	7.2	26.7	62.4	<5.0
	6/8/2018	1652.33	3.55	1648.78	0.00	Characterization	98.8	124	20.9	5.3	<10.0	<5.0	<15.0	18.5	<5.0
	9/11/2018	1652.33	3.11	1649.22	0.00	Characterization	219	181	23.3	16.9	29.0	10.0	<15.0	9.9	<5.0
MW-6	11/20/2018	1652.33	3.22	1649.11	0.00	Characterization	123	73	19.6	10.4	<10.0	<5.0	<15.0	<5.0	<5.0
	2/19/2019	1652.33	4.28	1648.05	0.00	Characterization	101	115	24.4	12.6	19.6	6.9	<15.0	10.5	<5.0
MW-6	10/19/2016	1653.95	6.18	1647.77	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/30/2016	1653.95	4.63	1649.32	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/22/2017	1653.95	4.21	1649.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/1/2017	1653.95	4.50	1649.45	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1653.95	3.05	1650.90	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1653.95	4.48	1649.47	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/5/2017	1653.95	5.35	1648.60	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1653.95	4.51	1649.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1653.95	4.99	1648.96	0.00	Characterization	1.1	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1653.95	3.94	1650.01	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-6	11/20/2018	1653.95	4.36	1649.59	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1653.95	4.49	1649.46	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	1.7	<3.0	<1.0	<1.0

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

1.) Screened Interval and Total Depth measurements from grade
2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Notes:

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

Not Sampled
NA
Not Applicable
Estimated Value

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-7							5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1653.00	3.62	1649.38	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/2/2017	1653.00	3.82	1649.18	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1653.00	3.10	1649.90	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/3/2017	1653.00	3.87	1649.13	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1653.00	4.10	1648.90	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1653.00	3.63	1649.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1653.00	3.91	1649.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.35' - 15.35' Total Depth: 16.35'	9/11/2018	1653.00	3.24	1649.76	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/19/2018	1653.00	3.48	1649.52	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1653.00	NM	#VALUE!	0.00	Characterization	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-8	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1653.13	4.46	1648.67	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/2/2017	1653.13	4.43	1648.70	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1653.13	3.81	1649.32	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1653.13	4.63	1648.30	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1653.13	5.11	1648.02	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1653.13	4.51	1648.62	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1653.13	4.77	1648.36	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1653.13	4.26	1648.87	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.32' - 20.32' Total Depth: 20.32'	11/20/2018	1653.13	3.88	1649.25	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1653.13	4.38	1648.75	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-9	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1651.75	4.66	1647.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/2/2017	1651.75	4.63	1646.92	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1651.75	3.96	1647.79	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1651.75	5.01	1646.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1651.75	5.28	1646.47	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1651.75	5.28	1646.47	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1651.75	5.03	1646.72	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1651.75	4.30	1647.45	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	11/20/2018	1651.75	3.92	1647.83	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1651.75	4.35	1647.40	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

1.) Screened Interval and Total Depth measurements from grade

2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Notes:

NS	Not Sampled
NA	Not Applicable
E	Estimated Value

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

NM
MTBE
1,2,4-TMB
1,3,5-TMB

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-10	10/19/2016	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1648.98	5.66	1643.32	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/2/2017	1648.98	5.82	1643.16	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1648.98	4.98	1644.00	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1648.98	5.77	1643.21	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1648.98	6.11	1642.87	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1648.98	5.81	1643.17	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1648.98	6.04	1642.94	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1648.98	5.35	1643.63	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-11	11/19/2018	1648.98	5.53	1643.45	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1648.98	5.70	1643.28	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-12	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/2/2017	1648.39	5.88	1642.51	0.00	Characterization	4.3	<1.0	<1.0	<1.0	<2.0	1.5	<3.0	<1.0	<1.0
	7/25/2017	1648.39	5.07	1643.32	0.00	Characterization	1.3	<1.0	<1.0	<1.0	<2.0	<2.0	<3.0	<1.0	<1.0
	11/2/2017	1648.39	5.81	1642.58	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1648.39	6.12	1642.27	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1648.39	5.64	1642.75	0.00	Characterization	<2.3	<3.4	<2.2	<3.3	4.0J	<2.3	<6.6	3.6J	<2.0
	6/7/2018	1648.39	6.02	1642.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1648.39	5.24	1643.15	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-13	11/19/2018	1648.39	5.61	1642.78	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1648.39	5.78	1642.61	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-14	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/2/2017	1648.39	5.88	1642.51	0.00	Characterization	4.3	<1.0	<1.0	<1.0	<2.0	1.5	<3.0	<1.0	<1.0
	7/25/2017	1648.39	5.07	1643.32	0.00	Characterization	1.3	<1.0	<1.0	<1.0	<2.0	<2.0	<3.0	<1.0	<1.0
	11/2/2017	1648.39	5.81	1642.58	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1648.39	6.12	1642.27	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1648.39	5.64	1642.75	0.00	Characterization	<2.3	<3.4	<2.2	<3.3	4.0J	<2.3	<6.6	3.6J	<2.0
	6/7/2018	1648.39	6.02	1642.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1648.39	5.24	1643.15	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0

NS
NA
J

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

Not Sampled
Not Applicable
Estimated Value

Notes:
Shaded values indicate Act 2 Statewide Health Standard exceedances
1.) Screened Interval and Total Depth measurements from grade
2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing
Note: MW-12 data from 3/21/18 reported to the MDL; all others reported to the RDL

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
MW-13	10/19/2016	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1645.56	3.14	1642.42	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1645.56	2.49	1643.07	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1645.56	3.10	1642.46	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1645.56	3.37	1642.19	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1645.56	2.97	1642.59	0.00	Characterization	<1.2	<1.7	<1.1	<1.7	6.4J	<1.2	<3.3	4.5J	1.7J
	6/7/2018	1645.56	3.19	1642.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1645.56	2.60	1642.96	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/19/2018	1645.56	2.82	1642.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1645.56	2.91	1642.65	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-14	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1647.34	4.25	1643.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/25/2017	1647.34	3.33	1644.01	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1647.34	4.44	1642.90	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1647.34	4.77	1642.57	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/21/2018	1647.34	4.25	1643.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/7/2018	1647.34	4.71	1642.63	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/10/2018	1647.34	3.93	1643.41	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/19/2018	1647.34	4.18	1643.16	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/18/2019	1647.34	4.20	1643.14	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
MW-15	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/25/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2017	1654.07	4.47	1649.60	0.00	Characterization	552	1240	176	<5.0	179	2420	3950	967	172
	12/5/2017	1654.07	5.11	1648.96	0.00	Characterization	458	1170	186	<5.0	139	1730	3150	990	157
	3/20/2018	1654.07	3.67	1650.40	0.00	Characterization	50.0	440	75.1	<5.0	39.7	137	360	705	<5.0
	6/8/2018	1654.07	4.63	1649.44	0.00	Characterization	94.4	405	90.5	<5.0	54.4	71.8	288	746	76.6
	9/11/2018	1654.07	3.65	1650.42	0.00	Characterization	52.6	343	72.4	<5.0	17.6	32.9	152	315	<5.0
	11/20/2018	1654.07	3.92	1650.15	0.00	Characterization	51.3	297	64.4	<5.0	<10.0	41.1	166	222	<5.0
	2/19/2019	1654.07	3.90	1650.17	0.00	Characterization	42.3	276	77.2	<5.0	15.6	60.8	202	279	<5.0

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l settling

Shaded values indicate Act 2 Statewide Health Standard exceedances

1.) Screened Interval and Total Depth measurements from grade

2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Note: MW-13 data from 3/21/18 reported to the MDL; all others reported to the RDL

Notes:

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

Not Sampled
Not Applicable
Estimated Value

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
OW-1 Screened Interval: 3.80' - 13.35' Total Depth: 13.35'	10/19/2016	1653.44	5.74	1647.70	0.00	Characterization	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	11/30/2016	1653.44	4.50	1648.94	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/22/2017	1653.44	3.38	1650.06	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/1/2017	1653.44	4.44	1649.00	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1653.44	4.18	1649.26	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1653.44	4.49	1648.95	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1653.44	4.96	1648.48	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1653.44	4.56	1648.88	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1653.44	4.70	1648.74	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1653.44	4.23	1649.21	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
OW-2 Screened Interval: 3.84' - 12.59' Total Depth: 12.59'	11/20/2018	1653.44	4.32	1649.12	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1653.44	3.37	1650.07	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
OW-2 Screened Interval: 3.84' - 12.59' Total Depth: 12.59'	10/19/2016	1652.39	4.70	1647.69	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/30/2016	1652.39	3.44	1648.95	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/22/2017	1652.39	4.42	1647.97	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	5/1/2017	1652.39	3.39	1649.00	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	7/24/2017	1652.39	3.13	1649.26	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1652.39	3.41	1648.98	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	12/4/2017	1652.39	3.88	1648.51	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1652.39	3.50	1648.89	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1652.39	3.64	1648.75	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1652.39	3.15	1649.24	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
OW-2 Screened Interval: 3.84' - 12.59' Total Depth: 12.59'	11/20/2018	1652.39	3.28	1649.11	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1652.39	3.30	1649.09	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0

NM

MTBE

1,2,4-TMB

1,3,5-TMB

Not Measured
Methyl Tert Butyl Ether
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene

NS

NA

E

Not Sampled
Not Applicable
Estimated Value

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

Notes:

1.) Screened Interval and Total Depth measurements from grade

2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
OW-3	NA	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1650.70	4.03	1646.67	0.00	Characterization	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/24/2017	1650.70	3.56	1647.14	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	1.3	3.8	<1.0	<1.0
	11/2/2017	1650.70	4.26	1646.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	5.0	<1.0	<1.0
	12/4/2017	1650.70	4.39	1646.31	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1650.70	4.20	1646.50	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1650.70	4.33	1646.37	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1650.70	3.23	1647.47	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1650.70	4.13	1646.57	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
OW-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1649.74	3.63	1646.11	0.00	Characterization	168	827	32.4	3.4	82.5	4800	5260	816	166
	7/24/2017	1649.74	3.14	1646.60	0.00	Characterization	43.9	601	64.2	1.4	140	1360	11100	2340	763
	11/2/2017	1649.74	3.82	1645.92	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	3.2	1.9	<1.0
	12/4/2017	1649.74	3.96	1645.78	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	3/20/2018	1649.74	3.75	1645.99	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	6/8/2018	1649.74	3.90	1645.84	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	9/11/2018	1649.74	3.67	1646.07	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	2/19/2019	1649.74	4.30	1645.44	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	1.9	<3.0	<1.0	<1.0
NM MTBE 1,2,4-TMB 1,3,5-TMB	Not Measured														
	Methyl Tert Butyl Ether														
	1,2,4-Trimethylbenzene														
	1,3,5-Trimethylbenzene														
NS NA E	Not Sampled														
	Not Applicable Estimated Value														

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

1.) Screened Interval and Total Depth measurements from grade

2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Table H-1
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Groundwater Analytical Data (ug/l)
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	Benzene (ug/L)	Ethylbenzene (ug/L)	Cumene (ug/l)	MTBE (ug/L)	Naphthalene (ug/L)	Toluene (ug/L)	Xylenes (ug/L)	1,2,4-TMB (ug/L)	1,3,5-TMB (ug/L)
RW-1	NA	NA	NA	NA	NA	NA	5.0	700.0	3,500.0	20.0	100.0	1,000.0	10,000.0	62.0	1,200.0
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1651.54	8.67	1642.87	0.00	Characterization	43.6	17.5	1.5	2.1	7.6	67.2	231	53.5	20.7
	7/24/2017	1651.54	8.59	1642.95	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	<1.0	<1.0
	11/2/2017	1651.54	8.78	1642.76	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	1.6	<1.0
	12/4/2017	1651.54	8.95	1642.59	0.00	Characterization	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<3.0	1.5	<1.0
	3/20/2018	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/7/2018	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/2018	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
Well Damaged Sometime Prior to March 2018 Sampling Event. Well No Longer Useable	11/19/2018	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/18/2019	1651.54	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS	NS	NS	NS
NM	Not Measured														
MTBE	Methyl Tert Butyl Ether														
1,2,4-TMB	1,2,4-Trimethylbenzene														
1,3,5-TMB	1,3,5-Trimethylbenzene														
NS	Not Sampled														
NA	Not Applicable														
E	Estimated Value														

PA Act 2 Statewide Health Standards for Non-Residential Used Aquifer TDS <2,500 mg/l setting

Shaded values indicate Act 2 Statewide Health Standard exceedances

1.) Screened Interval and Total Depth measurements from grade

2.) Well Head Elevation and Depth to Groundwater measured from Top of Casing

Notes:

Table H-2
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Intrinsic Groundwater Data
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	D.O. (mg/L)	O.R.P. (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Manganese (mg/L)	Nitrate (mg/L)
MW-1	10/19/2016	1654.16	15.22	1638.94	0.00	Characterization	7.62	-18.0	NM	NM	NM	NM
	11/30/2016	1654.16	4.51	1649.65	0.00	Characterization	5.39	-60.0	NM	NM	NM	NM
	2/22/2017	1654.16	3.24	1650.92	0.00	Characterization	6.42	-65.0	0.00	>80	1.0	5.4
	5/12/2017	1654.16	4.52	1649.64	0.00	Characterization	5.49	239.0	0.30	>80	0.1	7.2
	7/24/2017	1654.16	2.29	1651.87	0.00	Characterization	4.31	204.0	NS	NS	NS	NS
	11/2/2017	1654.16	3.74	1650.42	0.00	Characterization	5.62	137.0	0.16	>80	0.4	0.8
	12/5/2017	1654.16	5.12	1649.04	0.00	Characterization	6.45	280.0	0.03	73.0	1.4	9.1
	3/20/2018	1654.16	3.48	1650.68	0.00	Characterization	6.13	-30.0	NS	NS	NS	NS
	6/8/2018	1654.16	4.52	1649.64	0.00	Characterization	5.95	-4.0	0.13	>80	2.5	9.0
	9/11/2018	1654.16	3.27	1650.89	0.00	Characterization	4.81	120.0	NS	NS	NS	NS
MW-2	11/19/2018	1654.16	2.47	1651.69	0.00	Characterization	5.01	217.0	0.00	62.0	0.6	0.0
	2/19/2019	1654.16	2.74	1651.42	0.00	Characterization	3.16	-119.0	NS	NS	NS	NS
MW-3	10/19/2016	1652.92	5.20	1647.72	0.00	Characterization	0.39	-69.0	>3.30	8.0	>22.0	0.0
	11/30/2016	1652.92	4.57	1648.35	0.00	Characterization	0.37	-79.0	>3.30	0.0	>22.0	0.0
	2/22/2017	1652.92	3.45	1649.47	0.00	Characterization	0.28	-87.00	>3.30	0.00	>22.0	2.4
	5/2/2017	1652.92	4.54	1648.38	0.00	Characterization	0.30	-83.0	>3.30	0.0	>22.0	2.1
	7/25/2017	1652.92	4.21	1648.71	0.00	Characterization	0.28	-108.0	2.43	0.0	7.8	1.4
	11/3/2017	1652.92	4.52	1648.40	0.00	Characterization	0.35	-116.0	3.28	0.0	8.3	1.5
	12/5/2017	1652.92	4.79	1648.13	0.00	Characterization	0.35	-109.0	>3.30	1.0	11.7	1.4
	3/21/2018	1652.92	4.45	1648.47	0.00	Characterization	0.08	-83.0	NS	NS	NS	NS
	6/8/2018	1652.92	4.64	1648.28	0.00	Characterization	0.00	-68.0	>3.30	3.0	9.3	6.4
	9/11/2018	1652.92	4.16	1648.74	0.00	Characterization	0.29	-90.0	2.39	4.0	8.7	8.6
MW-4	11/20/2018	1652.92	4.32	1648.60	0.00	Characterization	0.52	-94.0	3.12	0.0	3.0	3.8
	2/19/2019	1652.92	4.39	1648.53	0.00	Characterization	0.00	-118.0	NS	NS	NS	NS

NM Not Measured
NS Not Sampled
NA Not Applicable
E Estimated Value

Table H-2
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Intrinsic Groundwater Data
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	D.O. (mg/L)	O.R.P. (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Manganese (mg/L)	Nitrate (mg/L)
MW-4	10/19/2016	1651.31	4.20	1647.11	0.00	Characterization	0.44	-88.0	>3.30	7.0	15.7	0.0
	11/30/2016	1651.31	3.40	1647.91	0.00	Characterization	0.49	-93.0	>3.30	41.0	17.2	1.9
	2/22/2017	1651.31	3.40	1647.91	0.00	Characterization	0.31	-110.0	>3.30	23.0	>22.0	6.2
	5/2/2017	1651.31	3.47	1647.84	0.00	Characterization	0.31	-103.0	>3.30	0.0	18.5	2.5
	7/25/2017	1651.31	3.11	1648.20	0.00	Characterization	0.27	-128.0	>3.30	0.0	12.8	1.2
	11/3/2017	1651.31	3.51	1647.80	0.00	Characterization	0.40	-107.0	2.19	0.0	5.6	1.0
	12/5/2017	1651.31	3.80	1647.51	0.00	Characterization	0.37	-125.0	>3.30	0.0	9.3	1.0
	3/21/2018	1651.31	3.32	1647.99	0.00	Characterization	0.13	-115.0	NS	NS	NS	NS
	6/8/2018	1651.31	3.67	1647.64	0.00	Characterization	0.10	-114.0	>3.30	2.0	12.2	4.2
	9/11/2018	1651.31	3.08	1648.23	0.00	Characterization	0.53	-110.0	>3.30	1.0	7.1	2.2
	11/20/2018	1651.31	3.21	1648.10	0.00	Characterization	0.60	-127.0	3.16	0.0	9.0	4.2
	2/19/2019	1651.31	3.36	1647.95	0.00	Characterization	0.00	-167.0	NS	NS	NS	NS
MW-5	10/19/2016	1652.33	4.64	1647.69	0.00	Characterization	0.46	-76.0	3.23	15.0	20.2	1.1
	11/30/2016	1652.33	3.38	1648.95	0.00	Characterization	0.40	-121.0	>3.30	10.0	>22.0	2.5
	2/22/2017	1652.33	3.30	1649.03	0.00	Characterization	0.31	-110.0	>3.30	>80	>22.0	2.3
	5/2/2017	1652.33	3.31	1649.02	0.00	Characterization	0.28	-131.0	>3.30	15.0	>22.0	1.7
	7/25/2017	1652.33	3.06	1649.27	0.00	Characterization	0.28	-151.0	>3.30	0.0	15.8	0.9
	11/3/2017	1652.33	3.36	1648.97	0.00	Characterization	0.37	-137.0	>3.30	0.0	21.6	3.3
	12/5/2017	1652.33	3.82	1648.51	0.00	Characterization	0.39	-133.0	>3.30	0.0	>22.0	2.0
	3/21/2018	1652.33	3.35	1648.98	0.00	Characterization	0.09	-151.0	NS	NS	NS	NS
	6/8/2018	1652.33	3.65	1648.78	0.00	Characterization	0.00	-142.0	>3.30	18.0	6.2	7.8
	9/11/2018	1652.33	3.11	1649.22	0.00	Characterization	0.32	-136.0	>3.00	0.0	14.4	5.4
	11/20/2018	1652.33	3.22	1649.11	0.00	Characterization	0.57	-147.0	>3.00	0.0	4.6	9.9
	2/19/2019	1652.33	4.28	1648.05	0.00	Characterization	0.00	-166.0	0.11	56.0	1.7	0.8
MW-6	10/19/2016	1653.95	6.18	1647.77	0.00	Characterization	0.91	172.0	0.01	39.0	3.1	1.8
	11/30/2016	1653.95	4.63	1649.32	0.00	Characterization	3.61	211.0	0.01	13.0	0.8	5.0
	2/22/2017	1653.95	4.21	1649.74	0.00	Characterization	5.41	248.0	0.40	21.0	0.4	3.3
	5/1/2017	1653.95	4.50	1649.45	0.00	Characterization	3.24	208.0	0.00	9.0	0.8	3.1
	7/25/2017	1653.95	3.05	1650.90	0.00	Characterization	3.67	232.0	0.08	17.0	0.4	2.1
	11/2/2017	1653.95	4.48	1649.47	0.00	Characterization	2.37	153.0	0.01	13.0	0.3	2.6
	12/5/2017	1653.95	5.35	1648.60	0.00	Characterization	2.93	271.0	0.04	9.0	0.4	1.2
	3/21/2018	1653.95	4.51	1649.44	0.00	Characterization	2.63	-108.0	NS	NS	NS	NS
	6/8/2018	1653.95	4.99	1648.96	0.00	Characterization	3.05	70.0	0.06	NS	0.2	18.4
	9/11/2018	1653.95	3.94	1650.01	0.00	Characterization	1.06	73.0	0.18	>70	1.1	0.9
	11/20/2018	1653.95	4.36	1649.59	0.00	Characterization	3.54	192.0	0.13	22.0	0.9	1.8
	2/19/2019	1653.95	4.49	1649.46	0.00	Characterization	0.00	187.0	>3.00	27.0	15.2	2.8
MW-6	10/19/2016	1653.95	6.18	1647.77	0.00	Characterization	0.91	172.0	0.01	39.0	3.1	1.8
	11/30/2016	1653.95	4.63	1649.32	0.00	Characterization	3.61	211.0	0.01	13.0	0.8	5.0
	2/22/2017	1653.95	4.21	1649.74	0.00	Characterization	5.41	248.0	0.40	21.0	0.4	3.3
	5/1/2017	1653.95	4.50	1649.45	0.00	Characterization	3.24	208.0	0.00	9.0	0.8	3.1
	7/25/2017	1653.95	3.05	1650.90	0.00	Characterization	3.67	232.0	0.08	17.0	0.4	2.1
	11/2/2017	1653.95	4.48	1649.47	0.00	Characterization	2.37	153.0	0.01	13.0	0.3	2.6
	12/5/2017	1653.95	5.35	1648.60	0.00	Characterization	2.93	271.0	0.04	9.0	0.4	1.2
	3/21/2018	1653.95	4.51	1649.44	0.00	Characterization	2.63	-108.0	NS	NS	NS	NS
	6/8/2018	1653.95	4.99	1648.96	0.00	Characterization	3.05	70.0	0.06	NS	0.2	18.4
	9/11/2018	1653.95	3.94	1650.01	0.00	Characterization	1.06	73.0	0.18	>70	1.1	0.9
	11/20/2018	1653.95	4.36	1649.59	0.00	Characterization	3.54	192.0	0.13	22.0	0.9	1.8
	2/19/2019	1653.95	4.49	1649.46	0.00	Characterization	0.00	187.0	>3.00	27.0	15.2	2.8
MW-6	10/19/2016	1653.95	6.18	1647.77	0.00	Characterization	0.91	172.0	0.01	39.0	3.1	1.8
	11/30/2016	1653.95	4.63	1649.32	0.00	Characterization	3.61	211.0	0.01	13.0	0.8	5.0
	2/22/2017	1653.95	4.21	1649.74	0.00	Characterization	5.41	248.0	0.40	21.0	0.4	3.3
	5/1/2017	1653.95	4.50	1649.45	0.00	Characterization	3.24	208.0	0.00	9.0	0.8	3.1
	7/25/2017	1653.95	3.05	1650.90	0.00	Characterization	3.67	232.0	0.08	17.0	0.4	2.1
	11/2/2017	1653.95	4.48	1649.47	0.00	Characterization	2.37	153.0	0.01	13.0	0.3	2.6
	12/5/2017	1653.95	5.35	1648.60	0.00	Characterization	2.93	271.0	0.04	9.0	0.4	1.2
	3/21/2018	1653.95	4.51	1649.44	0.00	Characterization	2.63	-108.0	NS	NS	NS	NS
	6/8/2018	1653.95	4.99	1648.96	0.00	Characterization	3.05	70.0	0.06	NS	0.2	18.4
	9/11/2018	1653.95	3.94	1650.01	0.00	Characterization	1.06	73.0	0.18	>70	1.1	0.9
	11/20/2018	1653.95	4.36	1649.59	0.00	Characterization	3.54	192.0	0.13	22.0	0.9	1.8
	2/19/2019	1653.95	4.49	1649.46	0.00	Characterization	0.00	187.0	>3.00	27.0	15.2	2.8
MW-6	10/19/2016	1653.95	6.18	1647.77	0.00	Characterization	0.91	172.0	0.01	39.0	3.1	1.8
	11/30/2016	1653.95	4.63	1649.32	0.00	Characterization	3.61	211.0	0.01	13.0	0.8	5.0
	2/22/2017	1653.95	4.21	1649.74	0.00	Characterization	5.41	248.0	0.40	21.0	0.4	3.3
	5/1/2017	1653.95	4.50	1649.45	0.00	Characterization	3.24	208.0	0.00	9.0	0.8	3.1
	7/25/2017	1653.95	3.05	1650.90	0.00	Characterization	3.67	232.0	0.08	17.0	0.4	2.1
	11/2/2017	1653.95	4.48	1649.47	0.00	Characterization	2.37	153.0	0.01	13.0	0.3	2.6
	12/5/2017	1653.95	5.35	1648.60	0.00	Characterization	2.93	271.0	0.04	9.0	0.4	1.2
	3/21/2018	1653.95	4.51	1649.44	0.00	Characterization	2.63	-108.0	NS	NS	NS	NS
	6/8/2018	1653.95	4.99	1648.96	0.00	Characterization	3.05	70.0	0.06	NS	0.2	18.4
	9/11/2018	1653.95	3.94	1650.01	0.00	Characterization	1.06	73.0	0.18	>70	1.1	0.9
	11/20/2018	1653.95	4.36	1649.59	0.00	Characterization	3.54	192.0	0.13	22.0	0.9	1.8
	2/19/2019	1653.95	4.49	1649.46	0.00	Characterization	0.00	187.0	>3.00	27.0	15.2	2.8

NM Not Measured
NS Not Sampled
NA Not Applicable
E Estimated Value

Table H-2
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Intrinsic Groundwater Data
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	D.O. (mg/L)	O.R.P. (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Manganese (mg/L)	Nitrate (mg/L)
MW-7 Screened Interval: 3.35' - 15.35' Total Depth: 15.35'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1653.00	3.62	1649.38	0.00	Characterization	0.57	94.0	0.10	12.0	3.5	0.0
	5/2/2017	1653.00	3.82	1649.18	0.00	Characterization	0.56	41.0	0.25	9.0	2.9	0.0
	7/25/2017	1653.00	3.10	1649.90	0.00	Characterization	0.33	147.0	NS	NS	NS	NS
	11/3/2017	1653.00	3.87	1649.13	0.00	Characterization	0.54	256.0	0.08	20.0	2.7	0.7
	12/4/2017	1653.00	4.10	1648.90	0.00	Characterization	0.62	220.0	NS	NS	NS	NS
	3/20/2018	1653.00	3.63	1649.37	0.00	Characterization	0.00	127.0	0.2	2.6	24.0	0.16
	6/7/2018	1653.00	3.91	1649.09	0.00	Characterization	0.00	100.0	NS	NS	NS	NS
	9/11/2018	1653.00	3.24	1649.76	0.00	Characterization	0.32	108.0	NS	NS	NS	NS
	11/19/2018	1653.00	3.48	1649.52	0.00	Characterization	0.86	134.0	0.3	14.0	4.2	5.10
	2/18/2019	1653.00	NM	NM	0.00	Characterization	NS	NS	NS	NS	NS	NS
MW-8 Screened Interval: 3.32' - 20.32' Total Depth: 20.32'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1653.13	4.46	1648.67	0.00	Characterization	1.86	121.0	0.34	12.0	1.0	0.0
	5/2/2017	1653.13	4.43	1648.70	0.00	Characterization	1.95	35.0	0.10	19.0	0.2	0.2
	7/24/2017	1653.13	3.81	1649.32	0.00	Characterization	1.45	144.0	0.13	13.0	0.5	0.0
	11/2/2017	1653.13	4.83	1648.30	0.00	Characterization	0.47	196.0	0.00	14.0	1.6	0.8
	12/4/2017	1653.13	5.11	1648.02	0.00	Characterization	0.56	205.0	0.05	15.0	1.7	2.5
	3/20/2018	1653.13	4.51	1648.62	0.00	Characterization	0.92	79.0	NS	NS	NS	NS
	6/7/2018	1653.13	4.77	1648.36	0.00	Characterization	0.45	136.0	NS	NS	NS	NS
	9/10/2018	1653.13	4.26	1648.87	0.00	Characterization	0.89	152.0	0.03	15.0	3.3	3.4
	11/20/2018	1653.13	3.88	1649.25	0.00	Characterization	0.96	117.0	0.10	14.0	1.1	5.3
	2/18/2019	1653.13	4.38	1648.75	0.00	Characterization	0.00	129.0	0.00	13.0	0.7	2.3
MW-9 Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1651.75	4.66	1647.09	0.00	Characterization	1.85	177.0	0.39	9.0	2.2	0.0
	5/2/2017	1651.75	4.83	1646.92	0.00	Characterization	2.09	88.0	0.27	9.0	0.1	0.0
	7/24/2017	1651.75	3.96	1647.79	0.00	Characterization	1.34	190.0	0.90	8.0	0.4	0.0
	11/2/2017	1651.75	5.01	1646.74	0.00	Characterization	0.40	166.0	0.01	12.0	0.7	0.8
	12/4/2017	1651.75	5.28	1646.47	0.00	Characterization	0.67	245.0	NS	NS	NS	NS
	3/20/2018	1651.75	4.57	1647.18	0.00	Characterization	1.19	69.0	NS	NS	NS	NS
	6/7/2018	1651.75	5.03	1646.72	0.00	Characterization	1.06	162.0	NS	NS	NS	NS
	9/10/2018	1651.75	4.30	1647.45	0.00	Characterization	0.92	154.0	NS	NS	NS	NS
	11/20/2018	1651.75	3.92	1647.83	0.00	Characterization	1.25	168.0	NS	NS	NS	NS
	2/18/2019	1651.75	4.35	1647.40	0.00	Characterization	9.84	228.0	0.05	15.0	1.3	5.1

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NS Not Sampled
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E Estimated Value

Table H-2
Site Characterization Activities
Pump-n-Pantry #001 Property
Summary of Intrinsic Groundwater Data
Groundwater Monitoring Wells

Well Number	Date Sampled	Well Head Elevation (feet)	Depth to Groundwater (feet)*	Relative Groundwater Elevation (feet)	Product Thickness (feet)	Remediation Status	D.O. (mg/L)	O.R.P. (mV)	Ferrous Iron (mg/L)	Sulfate (mg/L)	Manganese (mg/L)	Nitrate (mg/L)
MW-10 Screened Interval: 3.35' - 15.35' Total Depth: 15.35'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	1648.98	5.66	1643.32	0.00	Characterization	0.40	35.0	0.25	>80	15.7	0.0
	5/2/2017	1648.98	5.82	1643.16	0.00	Characterization	0.65	26.0	0.25	70.0	7.5	0.0
	7/25/2017	1648.98	4.98	1644.00	0.00	Characterization	0.34	209.0	0.07	>80	5.7	0.0
	11/2/2017	1648.98	5.77	1643.21	0.00	Characterization	0.33	114.0	0.10	24.0	6.8	0.3
	12/4/2017	1648.98	6.11	1642.87	0.00	Characterization	0.41	45.0	0.40	>80	2.8	0.0
	3/21/2018	1648.98	5.81	1643.17	0.00	Characterization	0.01	29.0	NS	NS	NS	NS
	6/7/2018	1648.98	6.04	1642.94	0.00	Characterization	0.00	71.0	0.50	>80	18.3	0.0
	9/10/2018	1648.98	5.35	1643.63	0.00	Characterization	0.36	125.0	0.07	68.0	7.2	6.3
	11/19/2018	1648.98	5.53	1643.45	0.00	Characterization	0.63	20.0	NS	NS	NS	NS
	2/18/2019	1648.98	5.70	1643.28	0.00	Characterization	0.00	53.0	0.16	71.0	17.8	1.0
MW-11 Screened Interval: 3.32' - 20.32' Total Depth: 20.32'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/1/2017	1650.45	3.91	1646.54	0.00	Characterization	3.70	128.0	0.07	6.0	0.5	0.0
	7/25/2017	1650.45	2.80	1647.65	0.00	Characterization	2.40	102.0	1.18	9.0	13.3	0.6
	11/2/2017	1650.45	3.92	1646.53	0.00	Characterization	1.86	213.0	0.11	11.0	1.3	0.3
	12/4/2017	1650.45	4.18	1646.27	0.00	Characterization	2.48	243.0	NS	NS	NS	NS
	3/21/2018	1650.45	3.99	1646.46	0.00	Characterization	4.43	67.0	NS	NS	NS	NS
	6/7/2018	1650.45	4.20	1646.25	0.00	Characterization	3.33	128.0	0.10	9.0	0.5	0.0
	9/10/2018	1650.45	3.12	1647.33	0.00	Characterization	3.52	111.0	0.28	15.0	2.4	2.5
	11/20/2018	1650.45	3.58	1646.87	0.00	Characterization	5.47	294.0	NS	NS	NS	NS
	2/18/2019	1650.45	3.56	1646.89	0.00	Characterization	0.00	136.0	NS	NS	NS	NS
MW-12 Screened Interval: 3.46' - 20.46' Total Depth: 20.46'	10/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/30/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/2017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/2/2017	1648.39	5.88	1642.51	0.00	Characterization	0.34	-100.0	>3.30	>80	>22.0	0.0
	7/25/2017	1648.39	5.07	1643.32	0.00	Characterization	0.41	-17.0	2.33	32.0	6.8	0.0
	11/2/2017	1648.39	5.81	1642.98	0.00	Characterization	0.34	-43.0	>3.30	32.0	8.4	0.0
	12/4/2017	1648.39	6.12	1642.27	0.00	Characterization	0.37	-59.0	>3.30	29.0	14.0	0.3
	3/21/2018	1648.39	5.64	1642.75	0.00	Characterization	0.22	-12.0	NS	NS	NS	NS
	6/7/2018	1648.39	6.02	1642.37	0.00	Characterization	0.00	-30.0	>3.30	36.0	>22.0	3.3
	9/10/2018	1648.39	5.24	1643.15	0.00	Characterization	0.33	-9.0	>3.00	40.0	12.6	6.2
	11/19/2018	1648.39	5.61	1642.78	0.00	Characterization	0.57	-69.0	2.59	33.0	11.9	0.6
	2/18/2019	1648.39	5.78	1642.61	0.00	Characterization	0.00	-67.0	NS	NS	NS	NS

NM Not Measured
NS Not Sampled
NA Not Applicable
E Estimated Value

	Not Measured	Not Sampled	Not Applicable	Estimated Value
NM				
NS				
NA				
E				

NM NS NA E

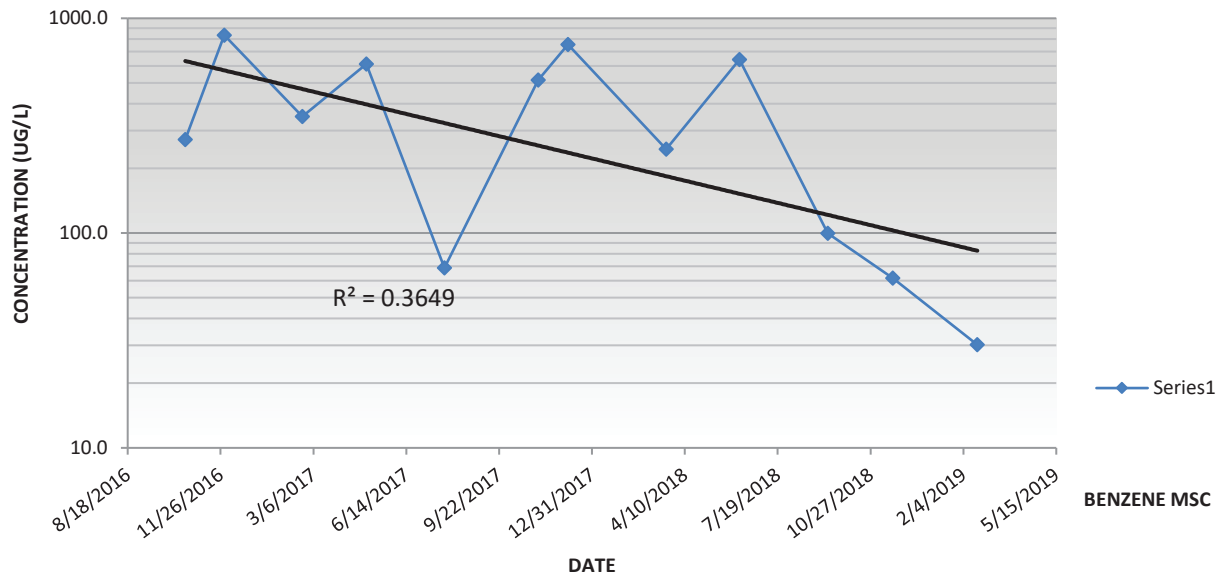
ATTACHMENT I

Groundwater Isopleths

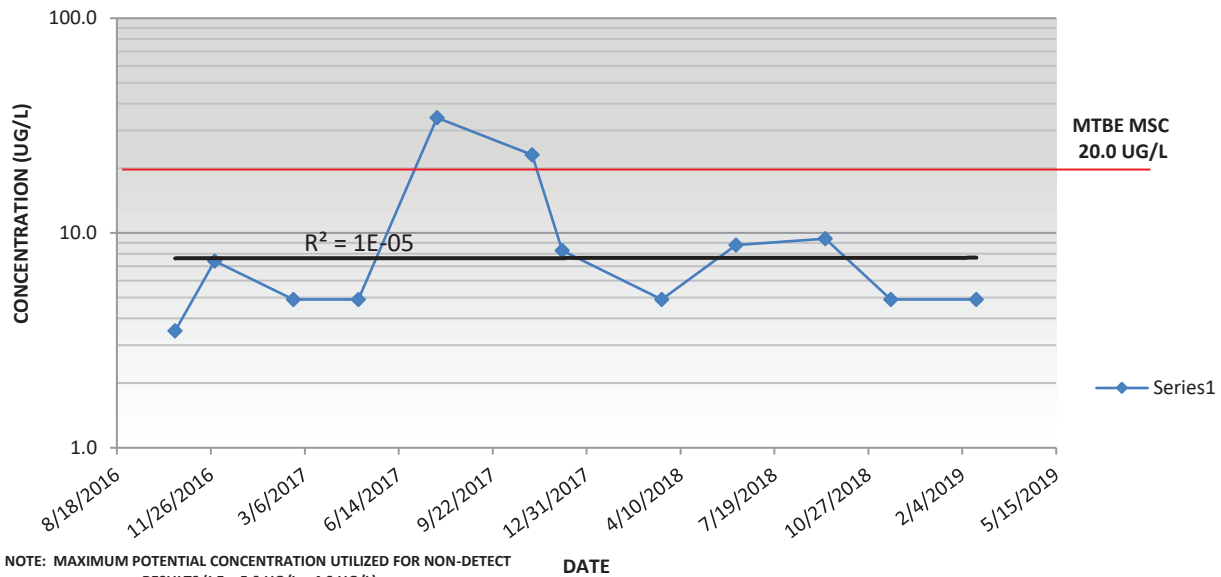
ATTACHMENT J

Temporal Trend Analysis

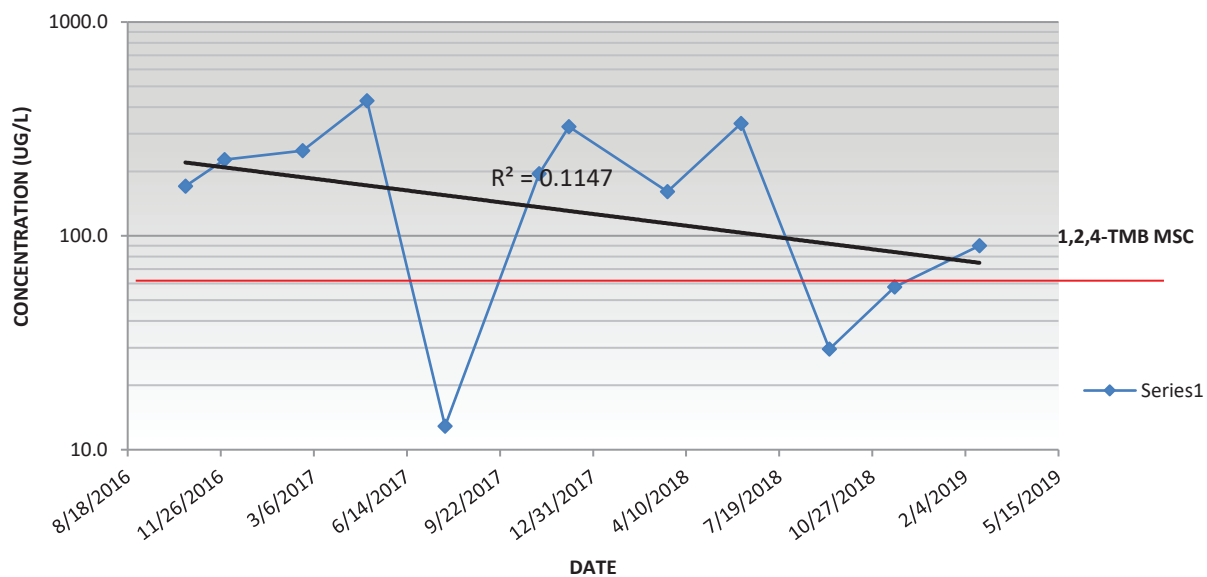
**MW-2
BENZENE VS TIME**



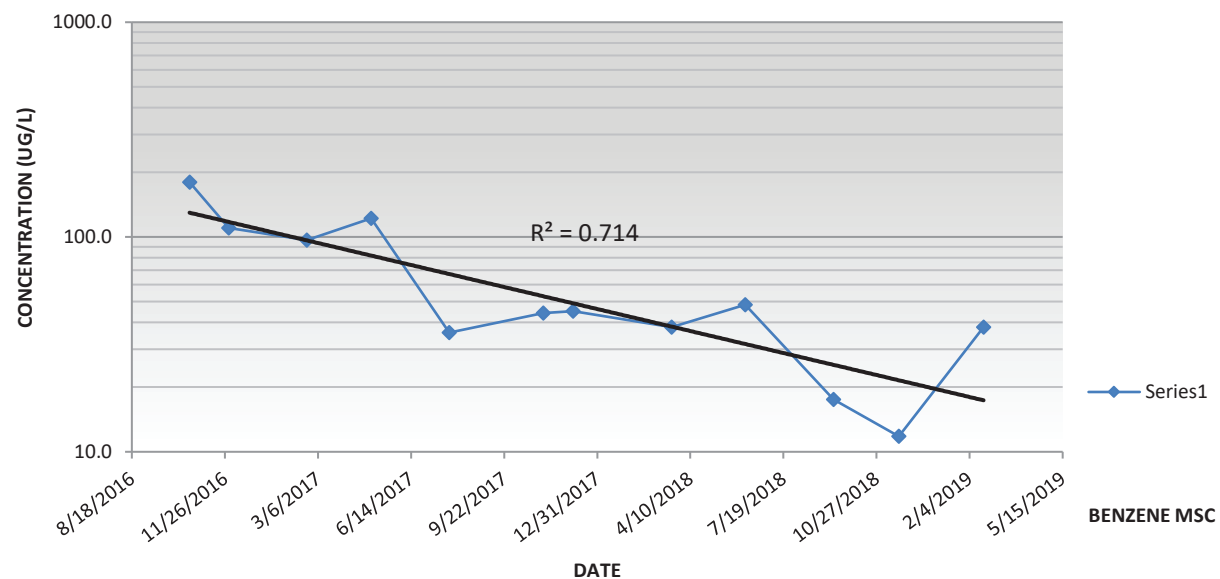
**MW-2
MTBE VS TIME**



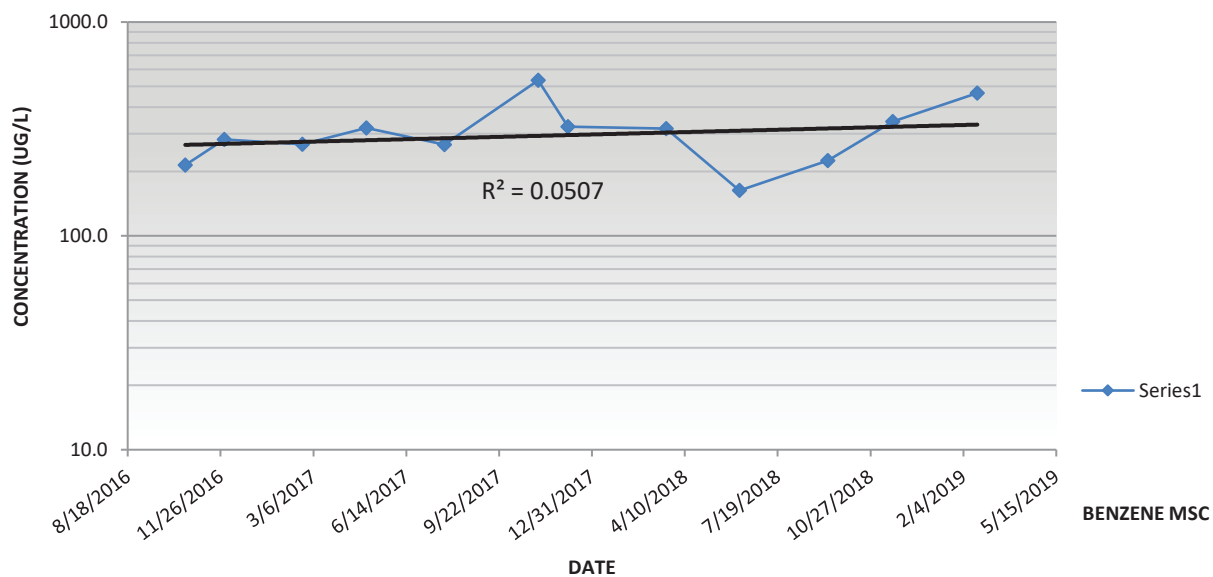
MW-2
1,2,4-TMB VS TIME



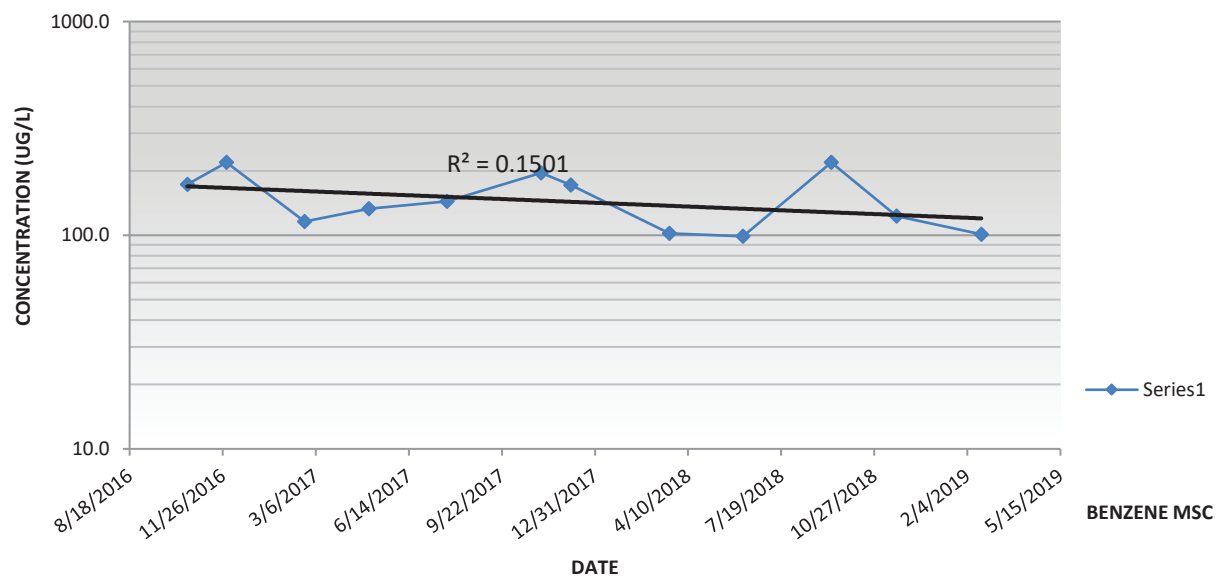
MW-3
BENZENE VS TIME



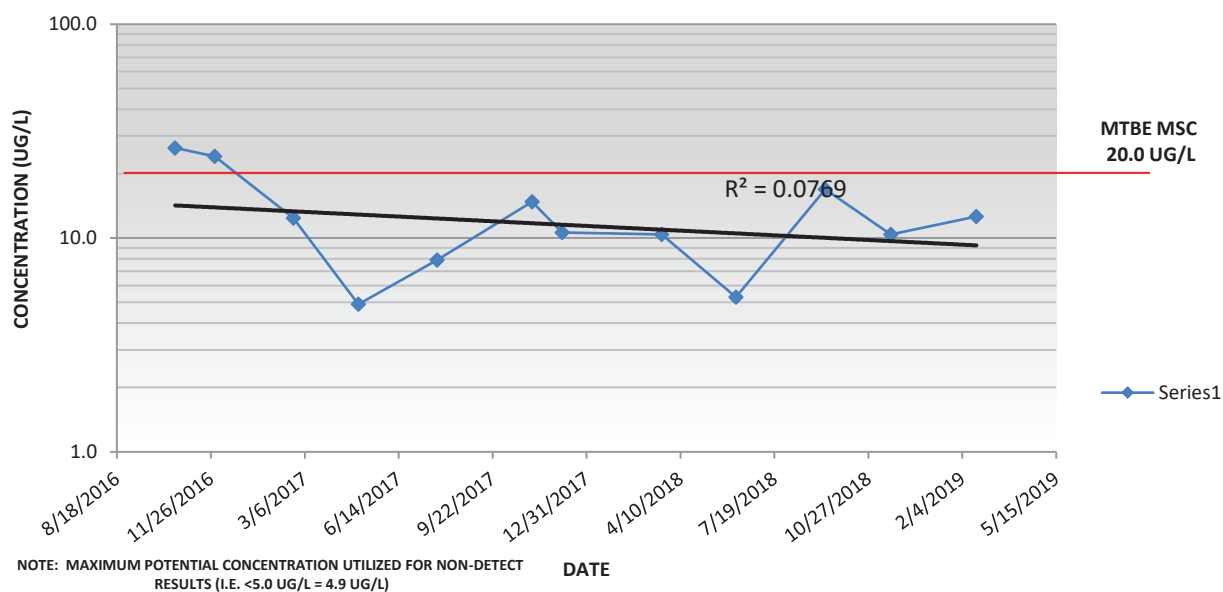
**MW-4
BENZENE VS TIME**



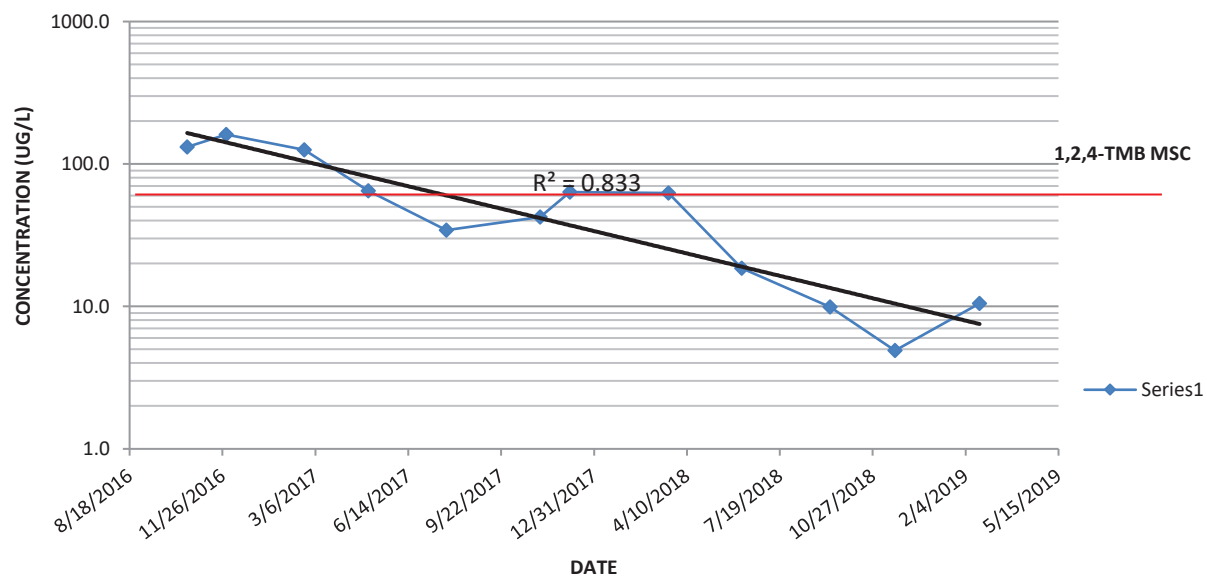
**MW-5
BENZENE VS TIME**



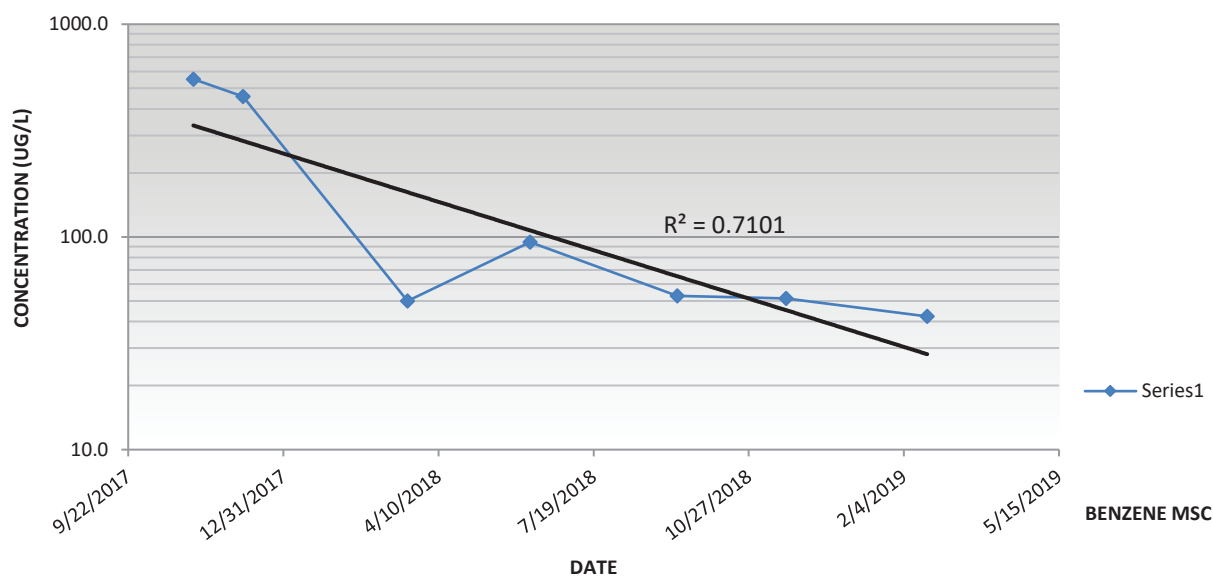
**MW-5
MTBE VS TIME**



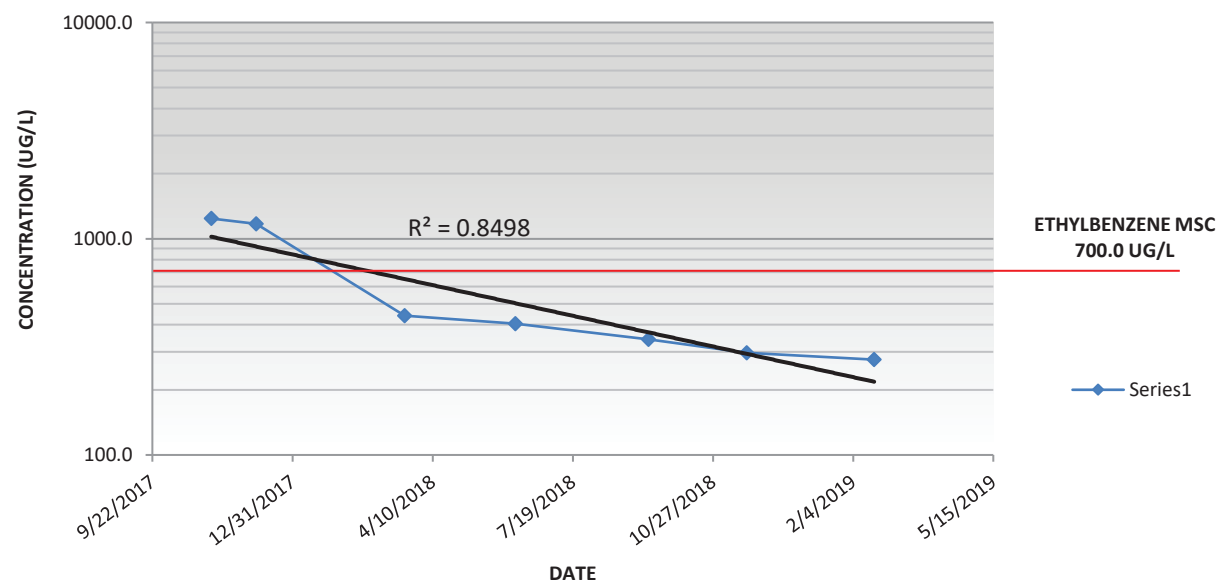
**MW-5
1,2,4-TMB VS TIME**



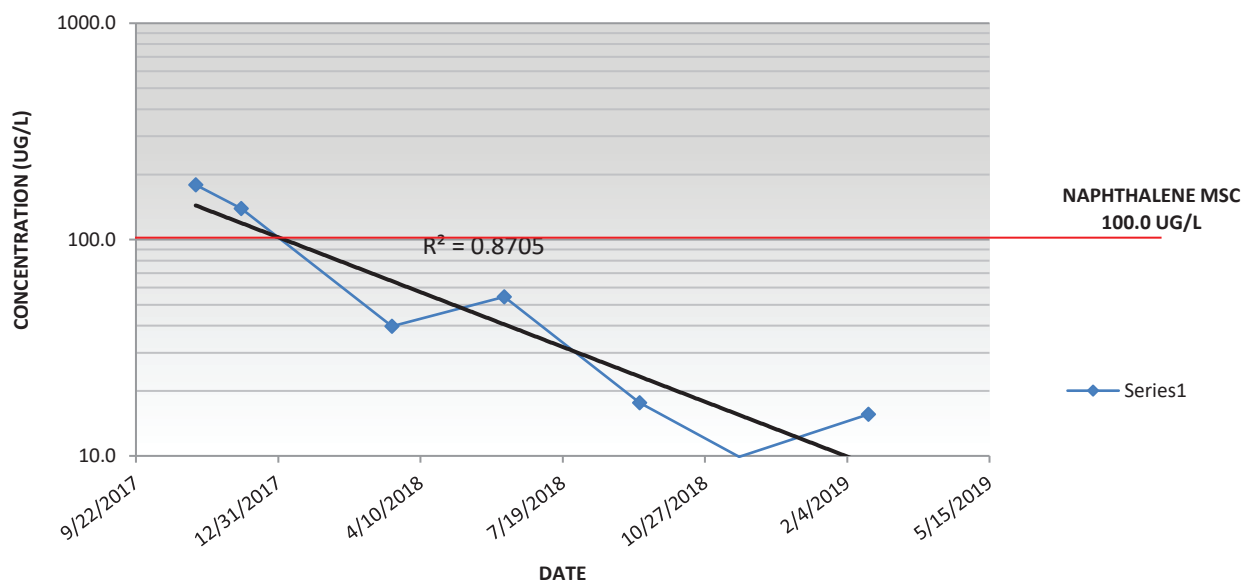
**MW-15
BENZENE VS TIME**



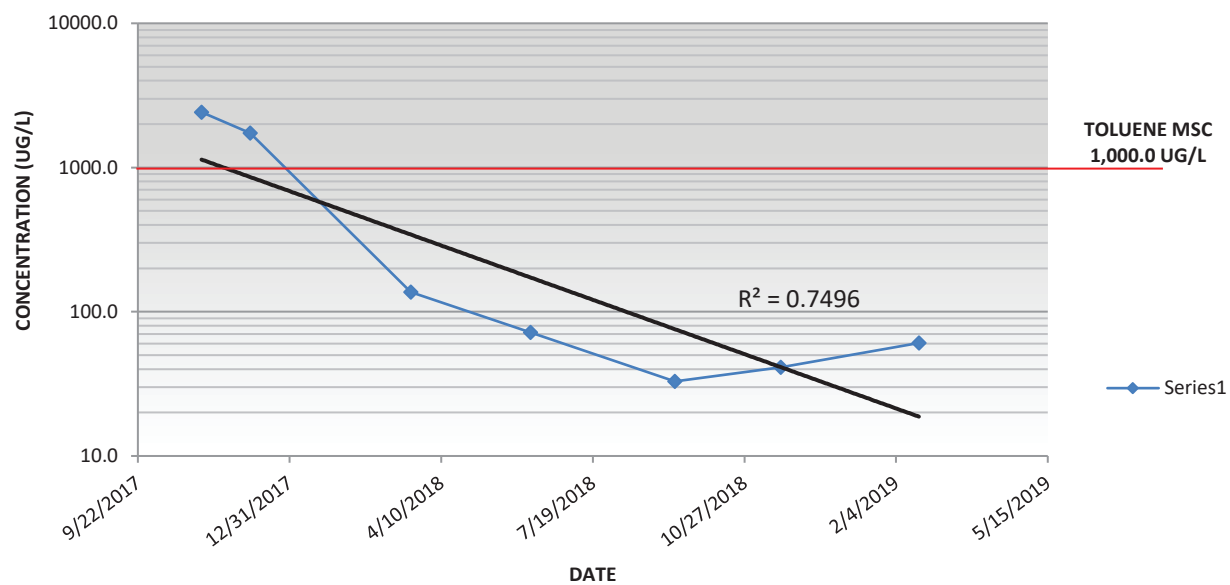
**MW-15
ETHYLBENZENE VS TIME**



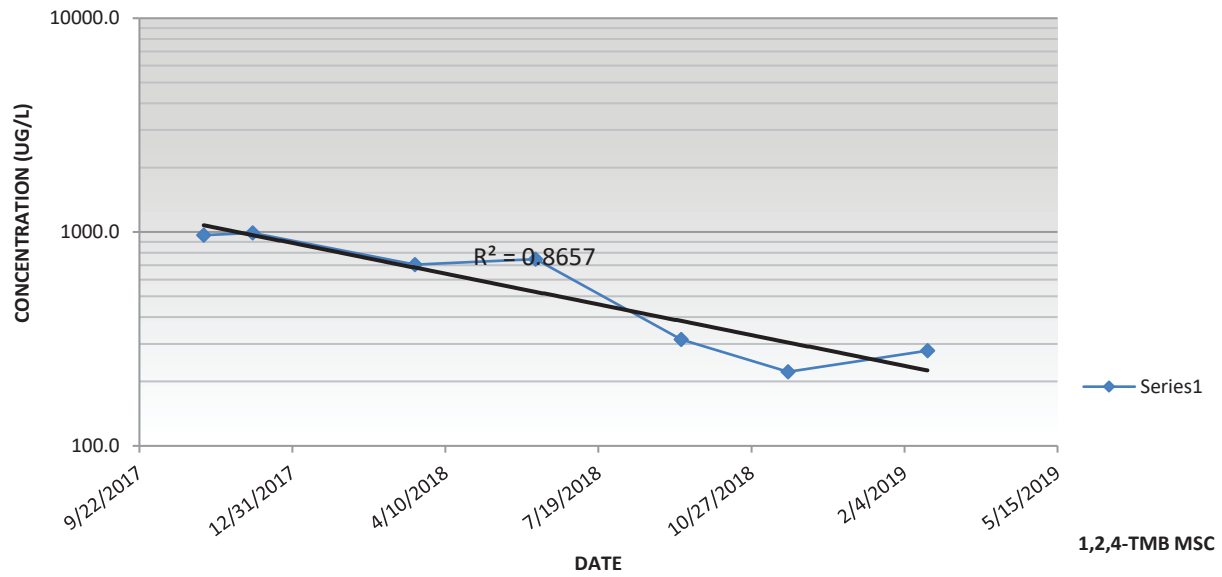
**MW-15
NAPHTHALENE VS TIME**



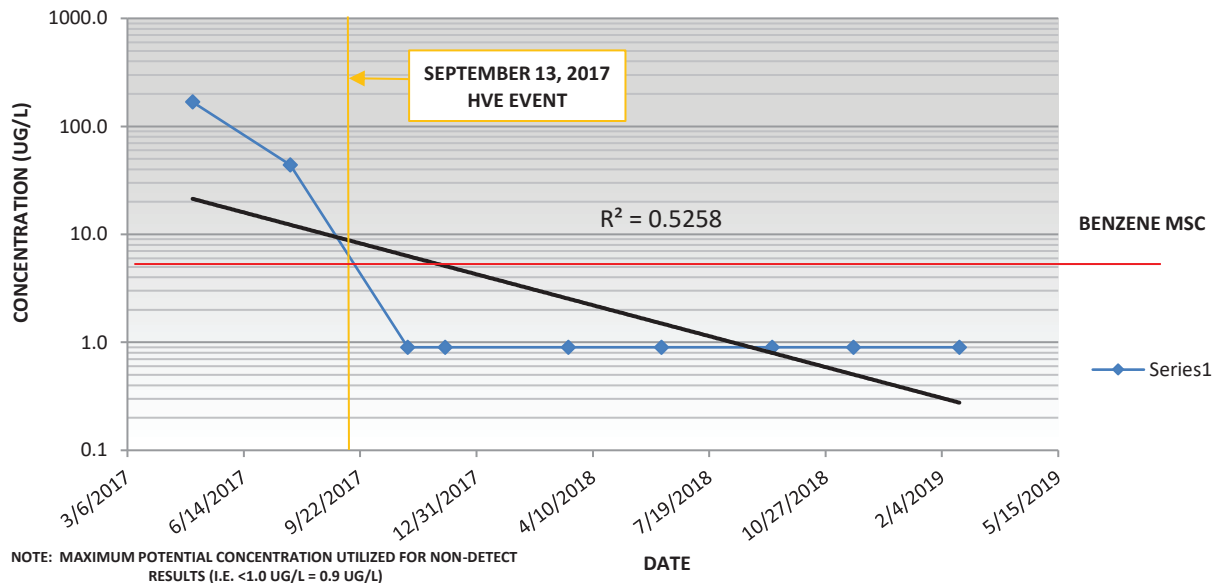
**MW-15
TOLUENE VS TIME**



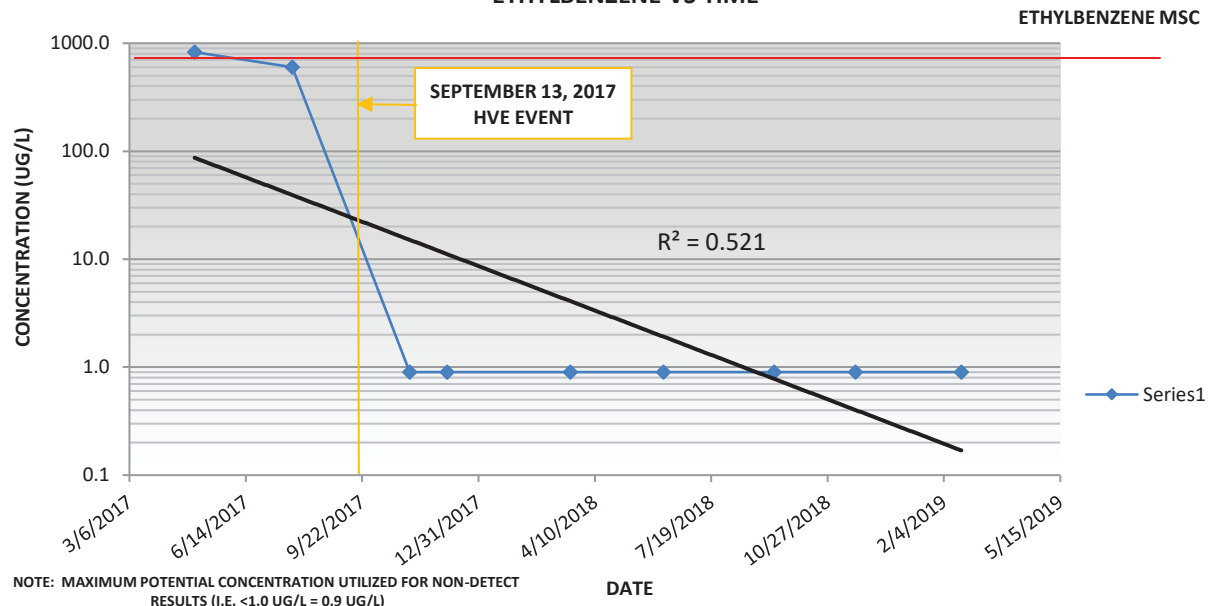
**MW-15
1,2,4-TMB VS TIME**



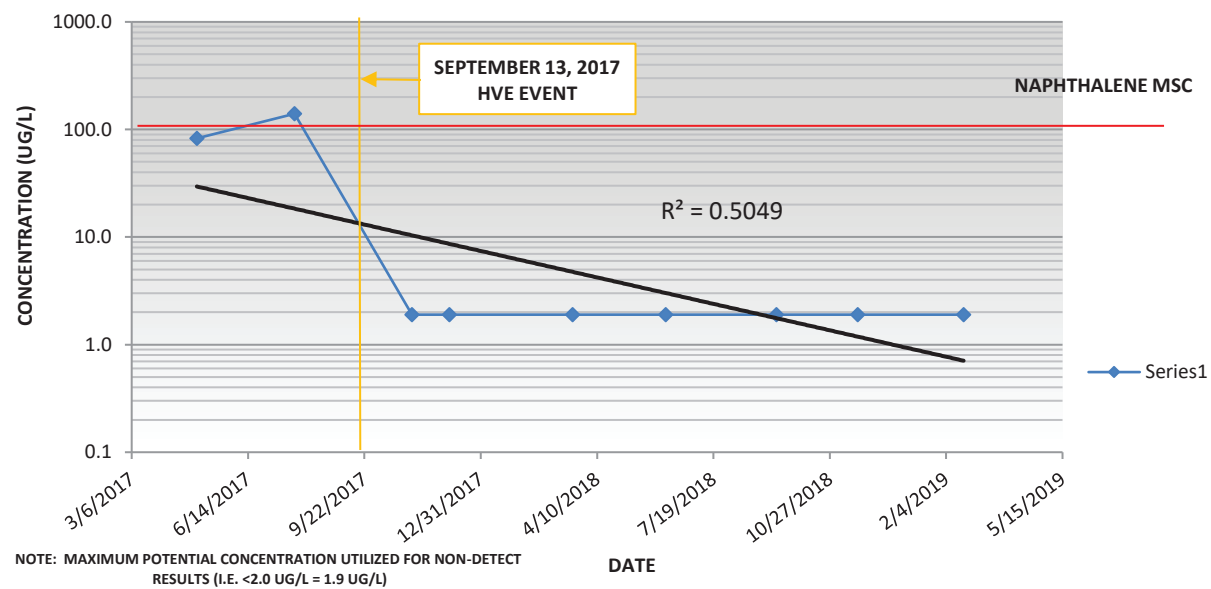
**OW-4
BENZENE VS TIME**



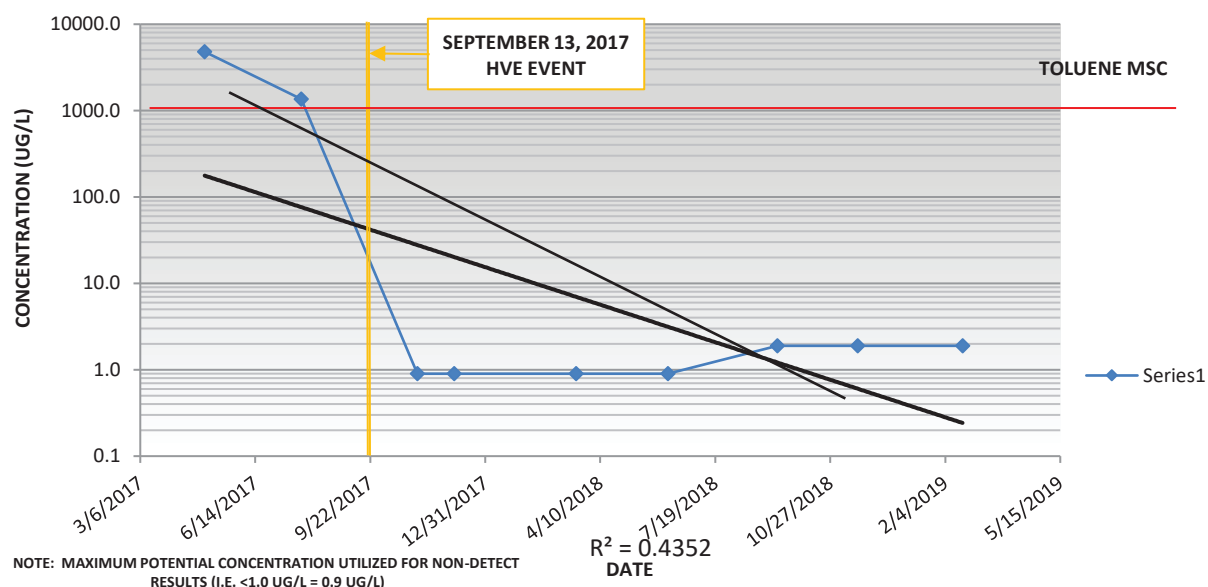
OW-4 ETHYLBENZENE VS TIME



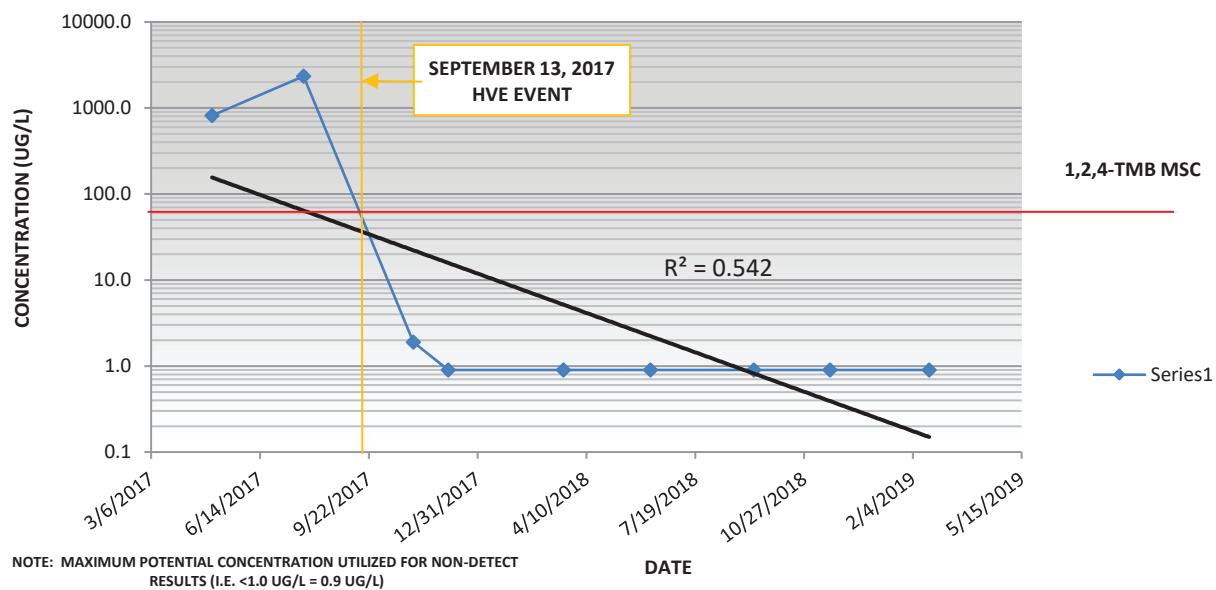
OW-4 NAPHTHALENE VS TIME



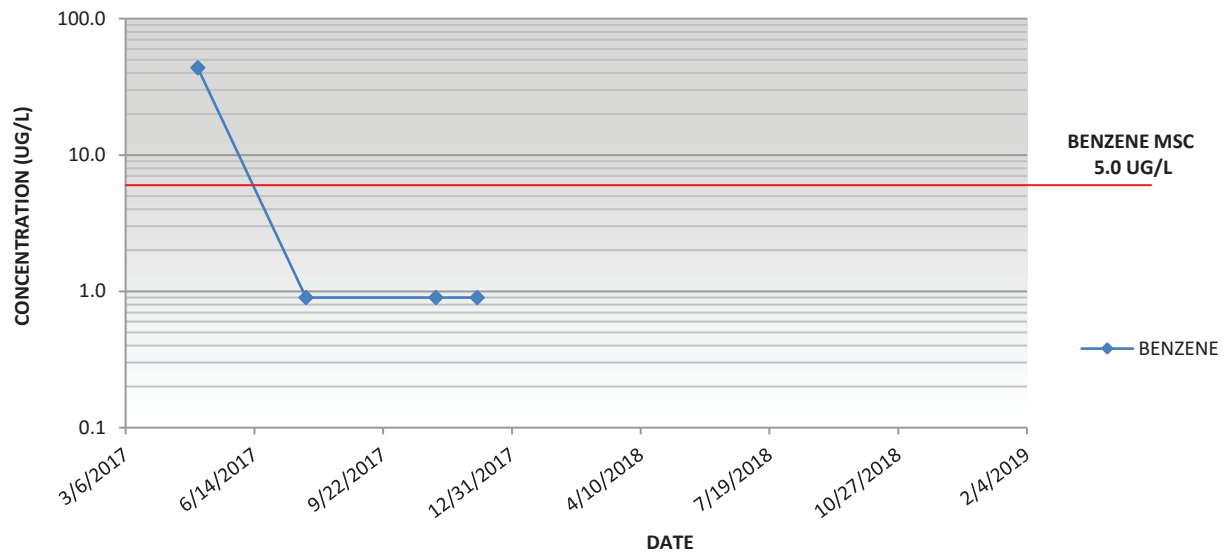
OW-4 TOLUENE VS TIME



OW-4 1,2,4-TMB VS TIME



**RW-1
BENZENE VS TIME**



NOTE: MAXIMUM POTENTIAL CONCENTRATION UTILIZED FOR NON-DETECT
RESULTS (I.E. <1.0 UG/L = 0.9 UG/L)